

# MATERIAL SAFETY DATA SHEET

Liqua Pro +

Date Revised: 01/01/2009

## SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: Liqua Pro +

Product Use: Extraction Emulsifier

### MANUFACTURER

CTI (Chemical Technologies International Inc.)

PO BOX 968

Rancho Cordova, CA 95741

Phone: (916) 638-1315 Fax: (916) 638-0712

Emergency Assistance Calls: Chemtrec (800) 424-9300 (U.S.A.) 24hrs.

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS #
1. Salicylic Acid Disodium Salt	6834-92-0
2. EDTA Trisodium Salt	18662-53-8
3. Proprietary surfactant blend	
4. Methoxypropanol	108-65-6
5 Acrylate Copolymer Sodium salt	N/A

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

## SECTION 3 – Hazards Identification

### Emergency Overview

Clear liquid with light odor.

Irritating to respiratory and digestive tract, acute nervous system, eyes and skin, harmful if swallowed.

### Potential Health Effects

Routes of entry: (skin: yes) (inhalation: yes) (ingestion: yes) (eye: yes)

### Inhalation:

Excessive inhalation may cause irritation of the respiratory tract.

### Eye Contact:

Vapors may irritate eyes. Direct or prolonged contact with eyes will be painful and irritating may also cause possible permanent damage.

### Skin Contact:

Repeated exposure may cause skin irritation, drying, chapping.

### Ingestion:

If swallowed can cause GI irritation.

Chronic effects: Not established.

## SECTION 4 – FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If breathing stops administer artificial respiration. Get medical attention immediately.

**Eye Contact:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention immediately.

**Skin Contact:** Flush thoroughly with cool water while removing any contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists after washing.

**Ingestion:** Get medical attention immediately.

Do not induce vomiting. Never give anything by mouth to an unconscious person. Give large quantities of water and if available give several glasses of milk. If vomiting occurs spontaneously, keep airway clear and give more water.

## SECTION 5 – Fire Fighting Measures

Flashpoint: N/A

MSDS Product: Liquid Pro +

Page 1 of 4, Revised Date: 01/01/2009

# MATERIAL SAFETY DATA SHEET

Flammable Limits: N/A

Auto ignition Temperature: N/A

## General Hazard:

During a fire smoke may contain the original material in addition to toxic and or irritating compounds. Avoid heat sparks or open flame.

## Fire Fighting Instructions:

Use dry chemical or CO<sub>2</sub>. Use water (only to cool) nearby containers and structures exposed to fire. Direct water stream may spread fire. Keep people away from fire, isolate fire area and deny unnecessary entry.

## Fire fighting equipment:

Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NICS/MSHA APPROVED).

## Hazardous combustion products:

Hazardous combustion products may include and are not limited to ; carbon dioxide, carbon monoxide.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Small Spills: Wipe or mop up and dispose of in DOT approved waste container.

Large Spills: Contain by diking with soil or other non-combustible absorbent material, then dispose into DOT approved waste container. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.

Contain all spills or leaks to prevent discharge into the environment. All spills or releases should be reported to the appropriate local, state and federal agencies.

## SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

The manufacturer and seller warrant that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

## For use by professionals ONLY.

Avoid breathing vapors of this product.

Always ensure good ventilation of surroundings during use of this chemical. Do not use this chemical in a poorly ventilated area.

Always keep container tightly closed and properly labels.

Avoid contact with skin, eyes or clothing.

Wash thoroughly after handling

Loosen closures cautiously.

Follow dilution recommendations

Storage temperature: store in cool dry place

Storage pressure: Atmospheric

Avoid excessive heat. Avoid storage with oxidizing or reducing agents, acids.

## SECTION 8 – EXPOSURE / PERSONAL PROTECTION

COMPONENT # (Refer to section 2 for component #)	EXPOSURE LIMITS			HAZARD
	OSHA PEL	ACGIH TLV	OTHER LIMIT	
1.	2mg/M3	2mg/M3		
2.	Not established			
3.	Not established			
4.		100ppm		
5.	Not established			

**Respiratory:** These precautions are not usually necessary in adequately ventilated areas. Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA –approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for

## MATERIAL SAFETY DATA SHEET

uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

Ventilation: Always assure adequate ventilation.

Eye Protection: Wear safety goggles to protect against contact when appropriate.

Skin: Wear protective clothing to minimize skin contact. Wash skin after use. Wash contaminated clothing and dry before reuse.

Other:

One should always use chemicals with an awareness of the potential hazard of the effect on the human system.

To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

### SECTION 9 – Physical and Chemical properties

Clear liquid with light clean odor.

PH: 8.5. At ready to use 650 to 1 dilution.

PH: 13 as shipped.

Vapor pressure: not available

Vapor density: not available

Boiling point: not available >100C

Freezing/Melting point: N/A

Solubility in water: soluble

Heat Value: not available

Particle size: N/A

Evaporation rate: not available

### SECTION 10 – Stability and Reactivity

Chemical Stability: Stable under ambient temperature and atmospheric pressure. Stable under recommended storage and handling conditions.

Conditions to avoid: Keep away from heat or excessive pressure.

Incompatibility with other materials: Although the mixture has no known incompatibilities, some components of this mixture are not compatible with acids, metals, oxidizing or reducing materials.

Hazardous decomposition products: There are no known hazardous decomposition materials of this mixture, some components of this mixture may liberate sulfur dioxide, carbon monoxide, carbon dioxide, and hydrogen sulfide.

Hazardous polymerization : Major components of this mixture show no hazardous polymerization.

### Section 11- Toxicological Information

Toxicological information not available on this mixture. Limits given are for components as listed in section 2.

1. LD50 rat oral 1153mg/kg
2. LD50 rat oral 630mg/kg
3. Not available
4. LD50 rat oral 5660mg/kg
5. Not available

### Section 12- Ecological Information

Ecological information not established on this mixture. Ecological information on components within this mixture are given by component number as listed in section 2.

<u>Component #</u>	<u>Information</u>
1	No information reported

### Section 13- Disposal practices

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

## MATERIAL SAFETY DATA SHEET

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

### Section 14- Transport information

This mixture has *no established reportable concentrations* of hazardous or flammable materials regulated by DOT.

### Section 15- Regulatory Information

US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, MSDS sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this material safety data sheet (MSDS) available to your employees and those who handle or consume the product.

NFPA: H = 2 F=2 R=0

EC Safety (S) and Risk (R) Phrases

S2, S26, S46

### Section 16- Other Information

All information appearing herein is based upon data obtained from the manufacturer and /or recognized technical sources of each individual component. While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTI's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

**Legend:**

**References:**

# MATERIAL SAFETY DATA SHEET

Browning Treatment

Date Prepared: 01/01/2009

## SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: Browning Treatment  
Product Use: Textile Anti Browning Agent

### MANUFACTURER

CTI (Chemical Technologies International Inc.)

3765 Omec Circle #2

Rancho Cordova, CA 95742

Phone: (916) 638-1315 Fax: (916) 638-0712

Emergency Assistance Calls: Chemtrec (800) 424-9300 (U.S.A.) 24hrs.

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

### COMPONENT

### CAS #

1. Sulfurous acid, monosodium salt

7631-90-5

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

## SECTION 3 – Hazards Identification

### Emergency Overview

Clear liquid with sulfur odor.

Irritating to respiratory and digestive tract, eyes and skin, harmful if swallowed.

### Potential Health Effects

Routes of entry: (skin: yes) (inhalation: yes) (ingestion: yes) (eye: yes)

### Inhalation:

Inhalation will cause irritation of the respiratory tract.

### Eye Contact:

Vapors may irritate eyes. Direct or prolonged contact with eyes will be painful and irritating may also cause possible permanent damage.

### Skin Contact:

Exposure may cause skin irritation, drying, chapping.

### Ingestion:

If swallowed will cause GI irritation.

**Other effects:** Sensory irritation.

## SECTION 4 – FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If breathing stops administer artificial respiration. Get medical attention..

**Eye Contact:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. **Get medical attention immediately.**

**Skin Contact:** Flush thoroughly with cool water while removing any contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists after washing.

## MATERIAL SAFETY DATA SHEET

**Ingestion:** Get medical attention immediately.

Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep airway clear and give more water.

### SECTION 5 – Fire Fighting Measures

Flashpoint: Non-Flammable, Non Combustible.

Flammable Limits: N/A

Auto ignition Temperature: N/A

**General Hazard:**

During a fire smoke may contain the original material in addition to toxic and or irritating compounds. Avoid heat sparks or open flame.

**Fire Fighting Instructions:**

Use dry chemical or CO2. Use water (only to cool) nearby containers and structures exposed to fire. Direct water stream may spread fire. Keep people away from fire, isolate fire area and deny unnecessary entry.

**Fire fighting equipment:**

Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NCSH/MSHA APPROVED).

**Hazardous combustion products:**

None Established.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

Small Spills: Wipe or mop up and dispose of in DOT approved waste container.

Large Spills: Contain by diking with soil or other non-combustible sorbant material, then dispose into DOT approved waste container. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.

Contain all spills or leaks to prevent discharge into the environment. All spills or releases should be reported to the appropriate local, state and federal agencies.

### SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

For use by professionals ONLY.

Avoid breathing vapors of this product.

Always ensure good ventilation of surroundings during use of this chemical. Do not use this chemical in a poorly ventilated area.

Always keep container tightly closed and properly labels.

Avoid contact with skin, eyes or clothing.

Wash thoroughly after handling

Loosen closures cautiously.

Storage temperature: Store in cool dry place

Storage pressure: Atmospheric

Avoid excessive heat. Avoid storage with oxidizing or reducing agents, acids.

### SECTION 8 – EXPOSURE / PERSONAL PROTECTION

#### EXPOSURE LIMITS

OSHA

ACGIH

OTHER

HAZARD

# MATERIAL SAFETY DATA SHEET

PEL

TLV

LIMIT

Not Established

5mg/m3

Niosh 5mg/m3

See State Listing Section 15

**Respiratory:** These precautions are not usually necessary in adequately ventilated areas. Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA –approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

**Ventilation:** Always assure adequate ventilation.

**Eye Protection:** Wear safety goggles to protect against contact when appropriate.

**Skin:** Wash skin after use. Wash contaminated clothing and dry before reuse.

**Other:**

One should always use chemicals with an awareness of the potential hazard of the effect on the human system. To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

## SECTION 9 – Physical and Chemical properties

PH: 4.0

Vapor pressure: not available

Vapor density: not available

Boiling point: not available

Freezing/Melting point: N/A

Solubility in water: soluble

Flammability: not established

Particle size: N/A

Evaporation rate: not available

## SECTION 10 – Stability and Reactivity

**Chemical Stability:** Stable at room temperature and atmospheric pressure. Stable under recommended storage and handling conditions.

**Conditions to avoid:** Keep away from heat or excessive pressure.

**Incompatibility with other materials:** Although the mixture has no known incompatibilities, some components of this mixture are not compatible with acids, metals, oxidizing or reducing materials.

**Hazardous decomposition products:** There are no known hazardous decomposition materials of this mixture; some components of this mixture may liberate oxides of sulfur and sodium.

**Hazardous polymerization:** Not established

## Section 11- Toxicological Information

Toxicological information not available on this mixture, although major component information is given by component number as listed in section 2.

LD50 Rat 2000 mg/kg..

## Section 12- Ecological Information

Ecological information not established on this mixture. Component #      Information

MSDS Product: Browning Treatment

Page 3 of 4, Revised Date: 01/01/2009

# MATERIAL SAFETY DATA SHEET

## Section 13- Disposal practices

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Province and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

## Section 14- Transport information

Shipping Instructions as shipped are: ORMD/LTD QTY Exemptions Used 173.154 LTD QTY & ORM-D  
Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.

## Section 15- Regulatory Information

US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, MSDS sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this material safety data sheet (MSDS) available to your employees and those who handle or consume the product.

To aid our customers in complying with regulatory requirements regulatory information for components of this product are indicated below.

This mixture has *no established regulatory information* all regulatory information given is based on individual components of the mixture by component number.

**CERCLA:** 5,000 lbs., **Florida:** This chemical is listed as a toxic substance by the state of Florida. **Massachusetts Haz. Substance codes** 4 F8, **Pennsylvania Haz. Substance code:** E

## Section 16- Other Information

All information appearing herein is based upon data obtained from the manufacturer and /or recognized technical sources of each individual component. While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTI's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

**Legend:**

**References:**



# MATERIAL SAFETY DATA SHEET

Citra Quick

Date Revised: 01/01/2009

## SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: Citra Quick  
Product Use: Paint, ink, grease and gum remover.

### MANUFACTURER

CTI (Chemical Technologies International Inc.)

Po box 968

Rancho Cordova, CA 95741

Phone: (916) 638-1315 Fax: (916) 638-0712

Emergency Assistance Calls: Chemtrec (800) 424-9300 (U.S.A.) 24hrs.

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS #
1. Methoxypropanol	107-98-2
2. P-1, 8(9) Menthadine	5989-27-5
3. Surfactant blend	Mixture
4. Isoparaffinic Hydrocarbon	64742-48-9

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

## SECTION 3 – Hazards Identification

Clear liquid with citrus scent

### Emergency Overview

### Potential Health Effects

Routes of entry: (skin: yes) (inhalation: yes) (ingestion: yes) (eye: yes)

### **Inhalation:**

Prolonged overexposure to vapors and spray mist in poorly ventilated areas may cause nose and throat irritation.

### **Eye Contact:**

Direct contact with product may cause irritation.

### **Skin Contact:**

Repeated or prolonged exposure may cause skin irritation.

### **Ingestion:**

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

**Chronic effects:** Not established.

## SECTION 4 – FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If breathing stops administer artificial respiration. Get medical attention immediately.

**Eye Contact:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention immediately.

**Skin Contact:** Flush thoroughly with cool water while removing any contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists after washing.

**Ingestion:** Get medical attention immediately.

# MATERIAL SAFETY DATA SHEET

## SECTION 5 – Fire Fighting Measures

Flashpoint: lowest closed cup flashpoint over 100 F

Flammable Limits: N/A

Auto ignition Temperature: N/A

### General Hazard:

None published.

### Fire Fighting Instructions:

Use dry chemical or CO2. Use water (only to cool) nearby containers and structures exposed to fire. Direct water stream may spread fire. Keep people away from fire, isolate fire area and deny unnecessary entry.

### Fire fighting equipment:

Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NICS/MSHA APPROVED).

### Hazardous combustion products:

None known.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Small Spills: Wipe or mop up and dispose of in DOT approved waste container.

Large Spills: Contain by diking with soil or other non-combustible absorbent material, then dispose into DOT approved waste container. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.

Contain all spills or leaks to prevent discharge into the environment. All spills or releases should be reported to the appropriate local, state and federal agencies.

## SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

For use by professionals ONLY.

Avoid breathing vapors of this product.

Always ensure good ventilation of surroundings during use of this chemical. Do not use this chemical in a poorly ventilated area.

Always keep container tightly closed and properly labels.

Avoid contact with skin, eyes or clothing.

Wash thoroughly after handling

Storage temperature: store in cool dry place

Storage pressure: Atmospheric

Avoid excessive heat.

## SECTION 8 – EXPOSURE / PERSONAL PROTECTION

COMPONENT # (Refer to section 2 for component #)	EXPOSURE LIMITS			HAZARD
	OSHA PEL	ACGIH TLV	OTHER LIMIT	
1.	N/A	N/A		
2.	N/A	100PPM		
3.	Not established			
4.	300ppm total hydrocarbon based on composition			

# MATERIAL SAFETY DATA SHEET

**Respiratory:** These precautions are not usually necessary in adequately ventilated areas. Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA –approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

**Ventilation:** Always assure adequate ventilation.

**Eye Protection:** Wear safety goggles to protect against contact when appropriate.

**Skin:** Wear protective clothing to minimize skin contact. Wash skin after use. Wash contaminated clothing and dry before reuse.

**Other:** Emergency shower and eyewash facility of some kind should be in close proximity.

One should always use chemicals with an awareness of the potential hazard of the effect on the human system.

To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

## SECTION 9 – Physical and Chemical properties

Clear liquid with light mint smell.

PH: 7.0

Vapor pressure: not available

Vapor density: not available

Boiling point: not available

Freezing/Melting point: N/A

Solubility in water: soluble

Density:

Flammability: not established

Particle size: N/A

Evaporation rate: not available

Viscosity: N/A

## SECTION 10 – Stability and Reactivity

**Chemical Stability:** Stable under ambient temperature and atmospheric pressure. Stable under recommended storage and handling conditions.

**Conditions to avoid:** Keep away from heat or excessive pressure.

**Incompatibility with other materials:** Although the mixture has no known incompatibilities, some components of this mixture are not compatible with metals & oxidizing materials.

**Hazardous decomposition products:** There are no known hazardous decomposition materials of this mixture.

**Hazardous polymerization:** Major components of this mixture show no hazardous polymerization.

## Section 11- Toxicological Information

Not established for this mixture.

1.	LD50 rat oral 5g/kg
2.	LD50 rat oral 5660mg/kg
3.	Not established
4.	Not established

## Section 12- Ecological Information

Not established for this mixture.

# MATERIAL SAFETY DATA SHEET

## Section 13- Disposal practices

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

## Section 14- Transport information

Shipping Instructions as shipped are: ORMD/LTD QTY Exemptions Used 173.120, 173.121, 173.150(B&C) LTD QTY & ORM-D

Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.

## Section 15- Regulatory Information

US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, MSDS sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this material safety data sheet (MSDS) available to your employees and those who handle or consume the product.

NFPA: H = 1 F=2 R=0

EC Safety (S) and Risk (R) Phrases

S2, S26, S46

R10

## Section 16- Other Information

All information appearing herein is based upon data obtained from the manufacturer and /or recognized technical sources of each individual component. While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTI's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

**Legend:**

**References:**

MSDS Product: Citra Quick

Page4 of 4, Revised Date: 07-02-2004

# MATERIAL SAFETY DATA SHEET

Ink Out

Date Prepared: 01/01/2009

## SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: Ink Out  
Product Use: Ink, Tar Remover / Spotter

### MANUFACTURER

CTI (Chemical Technologies International Inc.)

P.O. Box 968

Rancho Cordova, CA 95741

Phone: (916) 638-1315 Fax: (916) 638-0712

Emergency Assistance Calls: Chemtrec (800) 424-9300 (U.S.A.) 24hrs.

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS #
1. METHOXYPROPANOL	108-65-6
2. DIMETHYL CARBINOL	67-63-0
3. SURFACTANT	N/A

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

## SECTION 3 – Hazards Identification

### Emergency Overview

Clear liquid with light smell.

Irritating to respiratory and digestive tract, acute nervous system, eyes and skin, harmful if swallowed.

### Potential Health Effects

Routes of entry: (skin: yes) (inhalation: yes) (ingestion: yes) (eye: yes)

#### Inhalation:

Excessive inhalation may cause irritation of the respiratory tract, do not use in poorly ventilated areas as vapors can quickly accumulate and cause dizziness.

#### Eye Contact:

Vapors will irritate eyes. Direct or prolonged contact with eyes will be painful and irritating may also cause possible permanent damage.

#### Skin Contact:

Repeated exposure may cause skin irritation, drying, chapping.

#### Ingestion:

Single dose toxicity is considered to be low; swallowing large amounts may cause injury.

Chronic effects: Not established.

## SECTION 4 – FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If breathing stops have trained person administer artificial respiration. Get medical attention immediately.

**Eye Contact:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention immediately.

**Skin Contact:** Flush thoroughly with cool water while removing any contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists after washing.

**Ingestion:** Get medical attention immediately.

Do not induce vomiting. Never give anything by mouth to an unconscious person. Give large quantities of water and if available give several glasses of milk. If vomiting occurs spontaneously, keep airway clear and give more water.

# MATERIAL SAFETY DATA SHEET

## SECTION 5 – Fire Fighting Measures

Flashpoint: Not Available

Flammable Limits: Not Available

Auto ignition Temperature: Not Available

### General Hazard:

During a fire smoke may contain the original material in addition to toxic and or irritating compounds. Avoid heat sparks or open flame contains combustible liquid.

### Fire Fighting Instructions:

Use dry chemical or CO<sub>2</sub>. Use water (only to cool) nearby containers and structures exposed to fire. Direct water stream may spread fire. Keep people away from fire, isolate fire area and deny unnecessary entry.

### Fire fighting equipment:

Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NICS/MSHA APPROVED).

### Hazardous combustion products:

Hazardous combustion products may include and are not limited to; carbon dioxide, carbon monoxide, Hydrogen Chloride, Chlorine.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Small Spills: Wipe or mop up and dispose of in DOT approved waste container.

Large Spills: Contain by diking with soil or other non-combustible absorbent material, then dispose into DOT approved waste container. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.

Contain all spills or leaks to prevent discharge into the environment. All spills or releases should be reported to the appropriate local, state and federal agencies.

## SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

### For use by professionals ONLY.

Avoid breathing vapors of this product.

Always ensure good ventilation of surroundings during use of this chemical. Do not use this chemical in a poorly ventilated area.

Always keep container tightly closed and properly labels.

Avoid contact with skin, eyes or clothing.

Wash thoroughly after handling

Loosen closures cautiously.

Storage temperature: store in cool dry place

Storage pressure: Atmospheric

Avoid excessive heat. Avoid storage with oxidizing or reducing agents, acids.

## SECTION 8 – EXPOSURE / PERSONAL PROTECTION

COMPONENT # (Refer to section 2 for component #)	EXPOSURE LIMITS			HAZARD
	OSHA TWA	ACGIH TWA	OTHER LIMIT	
1		100 ppm	N/A	
2	400 ppm	400 ppm	N/A	
3		1ppm		

## MATERIAL SAFETY DATA SHEET

**Respiratory:** These precautions are not usually necessary in adequately ventilated areas. Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA –approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

**Ventilation:** Always assure adequate ventilation.

**Eye Protection:** Wear safety goggles to protect against contact when appropriate.

**Skin:** Wear protective clothing to minimize skin contact. Wash skin after use. Wash contaminated clothing and dry before reuse.

**Other:** Emergency shower and eyewash facility of some kind should be in close proximity.

One should always use chemicals with an awareness of the potential hazard of the effect on the human system. To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

### SECTION 9 – Physical and Chemical properties

PH: 7.0

Vapor pressure: not available

Vapor density: not available

Boiling point: not available

Freezing/Melting point: N/A

Solubility in water: soluble

Density:

Flammability: not established

Particle size: N/A

Evaporation rate: not available

Viscosity: Not Established

### SECTION 10 – Stability and Reactivity

**Chemical Stability:** Stable under ambient temperature and atmospheric pressure. Stable under recommended storage and handling conditions.

**Conditions to avoid:** Keep away from heat or ignition source.

**Incompatibility with other materials:** Although the mixture has no known incompatibilities, some components of this mixture are not compatible with acids, metals, oxidizing or reducing materials.

**Hazardous decomposition products:** There are no known hazardous decomposition materials of this mixture; some components of this mixture may liberate sulfur dioxide, carbon monoxide, carbon dioxide, and hydrogen sulfide.

**Hazardous polymerization:** Major components of this mixture show no hazardous polymerization.

### Section 11- Toxicological Information

Toxicological information not available on this mixture. Limits given are for components as listed in section 2.

1. LD50 rat oral 5660mg/kg
2. Not established
3. Not established

### Section 12- Ecological Information

Ecological information not established on this mixture.

MSDS Product: Ink out

Page3 of 5, Revised Date: 01/01/2009

# MATERIAL SAFETY DATA SHEET

## Section 13- Disposal practices

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

## Section 14- Transport information

Shipping Instructions as shipped are: ORMD/LTD QTY Exemptions Used 173.120, 173.121, 173.150(B&C) LTD QTY & ORM-D

Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.

## Section 15- Regulatory Information

US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, MSDS sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this material safety data sheet (MSDS) available to your employees and those who handle or consume the product.

To aid our customers in complying with regulatory requirements regulatory information for components of this product are indicated below.

A component of this mixture is listed as a potential carcinogen by IARC and NTP

This mixture has no additional published regulatory information all regulatory information given is based on individual components of the mixture by component number.

1      **SARA:** 1.0%, **NFPA Ratings:** Health 2, Flammability 2, Reactivity 0

**State lists:**

Florida lists this chemical as a toxic substance.

Massachusetts's codes: 2,4,5,6,F9

Pennsylvania code: E

EC Safety (S) and Risk (R) Phrases

S2, S26, S46

R10



## **MATERIAL SAFETY DATA SHEET**

### **Section 16- Other Information**

All information appearing herein is based upon data obtained from the manufacturer and /or recognized technical sources of each individual component. While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTI's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

**Legend:**

**References:**

# MATERIAL SAFETY DATA SHEET

STAIN 1

Date Revised: 01/01/2009

## SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: Stain 1  
Product Use: Stain Remover

### MANUFACTURER

CTI (Chemical Technologies International Inc.)

P.O. Box 968

Rancho Cordova, CA 95741

Phone: (916) 638-1315 Fax: (916) 638-0712

Emergency Assistance Calls: Chemtrec (800) 424-9300 (U.S.A.) 24hrs.

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>CAS #</u>
1. Carbamide peroxide	7722-84-1
2. Trade Secret (detergent polymer blend)	Mixture
3. Glycol Ether EB	111-76-2

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

## SECTION 3 – Hazards Identification

### Emergency Overview

Clear liquid with light odor.

Irritating to respiratory and digestive tract, eyes and skin, harmful if swallowed.

### Potential Health Effects

Routes of entry: (skin: yes) (inhalation: yes) (ingestion: yes) (eye: yes)

#### **Inhalation:**

Inhalation will cause irritation of the respiratory tract.

#### **Eye Contact:**

Vapors may irritate eyes. Direct or prolonged contact with eyes will be painful and irritating may also cause possible permanent damage.

#### **Skin Contact:**

Exposure may cause skin irritation, drying, chapping.

#### **Ingestion:**

If swallowed will cause GI irritation.

**Other effects:** Sensory irritation.

## SECTION 4 – FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If breathing stops administer artificial respiration. Get medical attention immediately.

**Eye Contact:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention immediately.

**Skin Contact:** Flush thoroughly with cool water while removing any contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists after washing.

## MATERIAL SAFETY DATA SHEET

**Ingestion:** Get medical attention immediately.

### SECTION 5 – Fire Fighting Measures

Flashpoint: Non-Flammable, Non-Combustible.

Flammable Limits: N/A

Auto ignition Temperature: N/A

**General Hazard:**

Oxidizer increased the burning rate of combustible materials. Containers may explode in the heat of a fire. Some oxidizers may react explosively with hydrocarbons(fuel).

During a fire smoke may contain the original material in addition to toxic and or irritating compounds. Avoid heat sparks or open flame.

**Fire Fighting Instructions:**

Water fog or fine spray, foam, carbon dioxide, dry chemical foam

**Fire fighting equipment:**

Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NCSH/MSHA APPROVED).

**Hazardous combustion products:**

None Established.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Small Spills:** Wipe or mop up and dispose of in DOT approved waste container, wear protective clothing.

**Large Spills:** Wear protective clothing, contain by diking with soil or other non-combustible sorbant material, then dispose into DOT approved waste container. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.

Contain all spills or leaks to prevent discharge into the environment. All spills or releases should be reported to the appropriate local, state and federal agencies.

### SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

For use by professionals **ONLY**.

Avoid breathing vapors of this product.

Always ensure good ventilation of surroundings during use of this chemical. Do not use this chemical in a poorly ventilated area.

Always keep container tightly closed and properly labels.

Avoid contact with skin, eyes or clothing.

Wash thoroughly after handling

Loosen closures cautiously.

Storage temperature: Store in cool dry place

Storage pressure: Atmospheric

Avoid excessive heat. Avoid storage with combustible organic materials, reducers or acids.

### SECTION 8 – EXPOSURE / PERSONAL PROTECTION

#### EXPOSURE LIMITS

Exposure limits have not been established for this mixture however limits for ingredients as listed in section 5 are given below.

MSDS Product: Stain 1

Page 2 of 4, Revised Date: 01/01/2009

## MATERIAL SAFETY DATA SHEET

<u>COMPONENT</u>	<u>#</u>	<u>OSHA</u> <u>PEL</u>	<u>ACGIH</u> <u>TLV</u>	<u>OTHER</u> <u>LIMIT</u>
1.		1ppm TWA	1ppm	
2.		Not established	Not established	
3.		50 ppm	20 ppm	

Respiratory: These precautions are not usually necessary in adequately ventilated areas. Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA –approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

Ventilation: Always assure adequate ventilation.

Eye Protection: Wear safety goggles to protect against contact when appropriate.

Skin: Wear protective clothing to minimize skin contact. Wash skin after use. Wash contaminated clothing and dry before reuse.

Other:

One should always use chemicals with an awareness of the potential hazard of the effect on the human system. To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

### SECTION 9 – Physical and Chemical properties

PH: 6.5 as shipped

Vapor pressure: 1mbar @ 30C

Vapor density: not available

Boiling point: 114C

Freezing/Melting point: -50C

Solubility in water: soluble

Density: not available

Flammability: not flammable

Particle size: N/A

Evaporation rate: not available

### SECTION 10 – Stability and Reactivity

Chemical Stability: Stable at room temperature and atmospheric pressure. Stable under recommended storage and handling conditions.

Conditions to avoid: Incompatible materials, excess heat, light.

Incompatibility with other materials: Hydrocarbons(fuels), Reducing agents, Metals, Organic combustible materials.

Hazardous decomposition products: There are no known hazardous decomposition materials of this mixture.

Hazardous polymerization: Not established

### Section 11- Toxicological Information

Toxicological Information has not been established for this mixture however information for ingredients as listed in section 5 are given below.

#### ITEM

1. LD50 oral rat > 90mL/kg.
2. Not established
3. LD50 oral rat 470 mg/kg

MSDS Product: Stain 1

Page 3 of 4, Revised Date: 01/01/2009

# MATERIAL SAFETY DATA SHEET

## Section 12- Ecological Information

Ecological information not established on this mixture, although ecological information on components within this mixture are given.

6.25 ppm/24hr trout/ lethal/ fresh water., 15ppm/ 48hr sunfish/Tlm/ Philadelphia tap water.,

## Section 13- Disposal practices

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Province and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

## Section 14- Transport information

Shipping Instructions as shipped are: ORMD/LTD QTY Exemptions Used 173.152 LTD QTY & ORM-D  
Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.

## Section 15- Regulatory Information

US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, MSDS sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this material safety data sheet (MSDS) available to your employees and those who handle or consume the product.

To aid our customers in complying with regulatory requirements regulatory information for components of this product are indicated below.

2. This\_mixture\_has no established regulatory information

## Section 16- Other Information

All information appearing herein is based upon data obtained from the manufacturer and /or recognized technical sources of each individual component. While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTI's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

**Legend:**

**References:**

# MATERIAL SAFETY DATA SHEET

RED 1 - low voc

Date Revised: 10/15/09

## SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: Red 1 – low voc  
Product Use: Food dye stain remover

### MANUFACTURER

CTI (Chemical Technologies International Inc.)  
P.O. Box 968  
Rancho Cordova, CA 95741  
Phone: (916) 638-1315 Fax: (916) 638-0712  
Emergency Assistance Calls: Chemtrec (800) 424-9300 (U.S.A.) 24hrs.

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	QTY BY WT %	CAS#	EXPOSURE LIMITS			
			ACGIH TLV TWA	STEL	OSHA PEL TWA	STEL
1. Sodium metabisulfite	<10	7681-57-4	5 mg/m3	na	5mg/m3	na
2. Ammonium Hydroxide	<3	1336-21-6	25 ppm (NH3)	35 ppm (NH3)	35 ppm (NH3)	

## SECTION 3 – Hazards Identification

### Emergency Overview

#### **Product description:**

Clear liquid with ammonia odor.  
Irritating to respiratory and digestive tract, eyes and skin, harmful if swallowed.

#### **Potential Health Effects**

Routes of entry: (skin: yes) (inhalation: yes) (ingestion: yes) (eye: yes)

#### **Inhalation:**

Mild inhalation of vapors may cause irritation of nose and throat with coughing and sneezing. More severe exposures may cause respiratory irritation, olfactory fatigue, labored breathing and pulmonary edema.

#### **Eye Contact:**

Vapors may irritate eyes. Direct contact with eyes will be painful and irritating may also cause possible permanent damage.

#### **Skin Contact:**

Exposure may cause skin irritation, drying, chapping. Extended contact can cause burns.

#### **Ingestion:**

If swallowed will cause GI irritation with possible burns to mucous membranes, esophagus and stomach. Symptoms may include pain in the mouth, chest, and abdomen, with coughing, vomiting and collapse. Ingestion can be fatal.

## SECTION 4 – FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, get medical attention immediately. If not breathing, give artificial respiration.

**Eye Contact:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Get medical attention.

## MATERIAL SAFETY DATA SHEET

**Skin Contact:** Flush thoroughly with cool water while removing any contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists after washing.

**Ingestion:** Get medical attention immediately.

### SECTION 5 – Fire Fighting Measures

Flashpoint: will not support combustion in ambient temperatures. Flash point 99 F.

Flammable Limits: n/a

Auto ignition Temperature: n/a

**General Hazard:**

During a fire smoke may contain the original material in addition to Carbon dioxide, Carbon monoxide, Sulfur dioxide and other toxic or irritating compounds

**Fire Fighting Instructions:**

Use dry chemical ,CO2, foam, or water spray Keep people away from fire, isolate fire area and deny unnecessary entry.

**Fire fighting equipment:**

Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NICS/MSHA APPROVED).

**Hazardous combustion products:**

During a fire smoke may contain the original material in addition to Carbon dioxide, Carbon monoxide, Sulfur dioxide and other toxic or irritating compounds

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

Small Spills: Wipe or mop up and dispose of in DOT approved waste container.

Large Spills: Contain by diking with soil or other non-combustible absorbent material, then dispose into DOT approved waste container. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.

Contain all spills or leaks to prevent discharge into the environment. All spills or releases should be reported to the appropriate local, state and federal agencies.

### SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

The manufacturer and seller warrant that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

For use by professionals ONLY.

Avoid breathing vapors of this product.

Always ensure good ventilation of surroundings during use of this chemical. Do not use this chemical in a poorly ventilated area. (Refer to section 8)

Always keep container tightly closed and properly labeled.

Avoid contact with skin, eyes or clothing.

Wash thoroughly after handling

Loosen closures cautiously.

Storage temperature: Store in cool dry place

Storage pressure: Atmospheric

Avoid excessive heat. Do not store with oxidizing agents.

# MATERIAL SAFETY DATA SHEET

## SECTION 8 – EXPOSURE / PERSONAL PROTECTION

### EXPOSURE LIMITS

Limits have not been established for this mixture. However limits for ingredients are listed in section 5.

Ventilation and engineering controls: Use only in well ventilated area. If necessary use exhaust ventilation to insure adequate ventilation. Ensure that a water facility is present and you are prepared to properly wash out your eyes should the need arise. (Refer to section 4)

Respiratory: Wear NIOSH/MSHA approved organic vapor respirator when ventilation is not adequate or when the sufficiency of ventilation to maintain vapor concentrations below exposure limits (shown in section 2) is in question.

Eye Protection: Wear safety goggles to protect against eye contact. See OSHA 29 CFR 1910.133

Skin: Wear chemical impervious gloves. Wear protective clothing appropriate for the task to prevent skin contact.

Other: One should always use chemicals with an awareness of the potential hazard of the effect on the human system. To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

## SECTION 9 – Physical and Chemical properties

PH: 12

Vapor pressure: n/a

Vapor density: n/a

Boiling Point: n/a

Freezing/Melting point: n/a

Solubility in water: soluble

Flammability: will not support combustion in ambient temperatures. Flash point 99 F.

Particle size: n/a

Evaporation rate: similar to water

## SECTION 10 – Stability and Reactivity

Chemical Stability: Stable at room temperature and atmospheric pressure. Stable under recommended storage and handling conditions.

Conditions to avoid: Keep away from heat or strong oxidizers..

Incompatibility with other materials: not compatible with oxidizers.

Hazardous decomposition products: There are no known hazardous decomposition materials of this mixture, some components of this mixture may liberate oxides of sulfur.

Hazardous polymerization: will not occur.

## Section 11- Toxicological Information

Toxicology is not established for this mixture. However limits for ingredients by number in section 5 are:

1. LD 50 rat 4.7 g/kg
2. N/A
3. LD 50 rat 2000mg/kg

## Section 12- Ecological Information

Ecological information not established on this mixture



# MATERIAL SAFETY DATA SHEET

## Section 13- Disposal practices

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Province and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

## Section 14- Transport information

Shipping Instructions as shipped are: ORMD/LTD QTY Exemptions Used 173.154 LTD QTY & ORM-D  
Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.

## Section 15- Regulatory Information

US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, MSDS sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this material safety data sheet (MSDS) available to your employees and those who handle or consume the product.

To aid our customers in complying with regulatory requirements regulatory information for components of this product are indicated below.

This mixture has *no established regulatory information*

## Section 16- Other Information

All information appearing herein is based upon data obtained from the manufacturer and /or recognized technical sources of each individual component. While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTI's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

**Legend:**

**References:**

# MATERIAL SAFETY DATA SHEET

Power Gel

Date revised: 01/01/2009

## SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: Power Gel  
Product Use: Spotter / Emulsifier

### MANUFACTURER

CTI (Chemical Technologies International Inc.)

P.O. Box 968

Rancho Cordova, CA 95741

Phone: (916) 638-1315 Fax: (916) 638-0712

Emergency Assistance Calls: Chemtrec (800) 424-9300 (U.S.A.) 24hrs.

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS #
1. Trade Mixture Surfactant	Mixture
2. DISODIUM TRIOXOSILICATE PENTAHYDRATE	6834-92-0
3. TETRASODIUM SALT	7722-88-5
5. METHOXY PROPANOL	108-65-6
6. P-1,8(9)-MENTHADIENE	5989-27-5

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

## SECTION 3 – Hazards Identification

### Emergency Overview

Off White, Viscous liquid with light citrus smell.

Irritating to respiratory and digestive tract, acute nervous system, eyes and skin, harmful if swallowed.

### Potential Health Effects

Routes of entry: (skin: yes) (inhalation: yes) (ingestion: yes) (eye: yes)

### Inhalation:

Excessive inhalation may cause irritation of the respiratory tract.

### Eye Contact:

Vapors may irritate eyes. Direct or prolonged contact with eyes will be painful and irritating may also cause possible permanent damage.

### Skin Contact:

Repeated exposure may cause skin irritation, drying, chapping.

### Ingestion:

If swallowed can cause GI irritation.

Chronic effects: Not established.

## SECTION 4 – FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If breathing stops administer artificial respiration. Get medical attention immediately.

**Eye Contact:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention immediately.

**Skin Contact:** Flush thoroughly with cool water while removing any contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists after washing.

**Ingestion:** Get medical attention immediately.

# MATERIAL SAFETY DATA SHEET

## SECTION 5 – Fire Fighting Measures

Flashpoint:

Flammable Limits: Not Available

Auto ignition Temperature: Not Available

### General Hazard:

During a fire smoke may contain the original material in addition to toxic and or irritating compounds. Avoid heat sparks or open flame contains combustible liquid.

### Fire Fighting Instructions:

Use dry chemical or CO<sub>2</sub>. Use water (only to cool) nearby containers and structures exposed to fire. Direct water stream may spread fire. Keep people away from fire, isolate fire area and deny unnecessary entry.

### Fire fighting equipment:

Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NICS/MSHA APPROVED).

### Hazardous combustion products:

Hazardous combustion products may include and are not limited to ; carbon dioxide, carbon monoxide.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Small Spills: Wipe or mop up and dispose of in DOT approved waste container.

Large Spills: Contain by diking with soil or other non-combustible absorbent material, then dispose into DOT approved waste container. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.

Contain all spills or leaks to prevent discharge into the environment. All spills or releases should be reported to the appropriate local, state and federal agencies.

## SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

The manufacturer and seller warrant that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

For use by professionals ONLY.

Avoid breathing vapors of this product.

Always ensure good ventilation of surroundings during use of this chemical. Do not use this chemical in a poorly ventilated area.

Always keep container tightly closed and properly labels.

Avoid contact with skin, eyes or clothing.

Wash thoroughly after handling

Loosen closures cautiously.

Storage temperature: store in cool dry place

Storage pressure: Atmospheric

Avoid excessive heat. Avoid storage with oxidizing or reducing agents, acids.

## MATERIAL SAFETY DATA SHEET

### SECTION 8 – EXPOSURE / PERSONAL PROTECTION

COMPONENT # (Refer to section 2 for component #)	EXPOSURE LIMITS			HAZARD
	OSHA PEL	ACGIH TLV	OTHER LIMIT	
1	N/A	N/A		
2	2mg/M3	2mg/M3		
3		5mg/M3		
4	N/A	N/A		
5	N/A	N/A		

**Respiratory:** These precautions are not usually necessary in adequately ventilated areas. Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA –approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

**Ventilation:** Always assure adequate ventilation.

**Eye Protection:** Wear safety goggles to protect against contact when appropriate.

**Skin:** Wear protective clothing to minimize skin contact. Wash skin after use. Wash contaminated clothing and dry before reuse.

**Other**

One should always use chemicals with an awareness of the potential hazard of the effect on the human system. To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

### SECTION 9 – Physical and Chemical properties

Off White, viscous liquid with light citrus smell.

PH 10.5 at 3% solution

PH: 12.0 as shipped

Vapor pressure: not available

Vapor density: not available

Boiling point: not available

Freezing/Melting point: N/A

Solubility in water: soluble

Flammability: not established

Particle size: N/A

Evaporation rate: not available

### SECTION 10 – Stability and Reactivity

**Chemical Stability:** Stable under ambient temperature and atmospheric pressure. Stable under recommended storage and handling conditions.

**Conditions to avoid:** Keep away from heat or excessive pressure.

**Incompatibility with other materials:** Although the mixture has no known incompatibilities, some components of this mixture are not compatible with acids, metals, oxidizing or reducing materials.

**Hazardous decomposition products:** There are no known hazardous decomposition materials of this mixture; some components of this mixture may liberate sulfur dioxide, carbon monoxide, carbon dioxide, and hydrogen sulfide.

**Hazardous polymerization:** Major components of this mixture show no hazardous polymerization.

### Section 11- Toxicological Information

## MATERIAL SAFETY DATA SHEET

Toxicological information not available on this mixture, although major component information is given by component number as listed in section 2.

Component #	Information
-------------	-------------

- |   |                                   |
|---|-----------------------------------|
| 1 | No information reported.          |
| 2 | Acute oral LD50: (Rat) 800 mg/kg, |
| 3 | No information reported           |
| 4 | Oral (Rat) LD50 20g/kg            |
| 5 | Oral LD50 (Rats): 5g/kg           |

### Section 12- Ecological Information

Ecological information not established on this mixture

### Section 13- Disposal practices

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

### Section 14- Transport information

Shipping Instructions as shipped are: ORMD/LTD QTY Exemptions Used 173.120(B2), 173.121, 173.150(B&C) LTD QTY & ORM-D

Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.

### Section 15- Regulatory Information

US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, MSDS sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this material safety data sheet (MSDS) available to your employees and those who handle or consume the product.

EC Safety(S) and Risk(R) Phrases:

S2, S26, S46  
R36

NFPA:

Health:2

Fire: 1

Reactivity:0

MSDS Product: Power Gel

Page4 of 5, Revised Date: 01/01/2009

## **MATERIAL SAFETY DATA SHEET**

### **Section 16- Other Information**

All information appearing herein is based upon data obtained from the manufacturer and /or recognized technical sources of each individual component. While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTI's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

**Legend:**

**References:**

# MATERIAL SAFETY DATA SHEET

Urine Stain Remover

Date Revised: 01/01/2009

## SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: Urine Stain Remover  
Product Use: Removal of Urine Stains

### MANUFACTURER

CTI (Chemical Technologies International Inc.)

PO BOX 968

Rancho Cordova, CA 95741

Phone: (916) 638-1315 Fax: (916) 638-0712

Emergency Assistance Calls: Chemtrec (800) 424-9300 (U.S.A.) 24hrs.

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

### COMPONENT

### CAS #

Proprietary peroxygen surfactant blend

N/A

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

## SECTION 3 – Hazards Identification

### Emergency Overview

Clear liquid with light odor.

Irritating to respiratory and digestive tract, eyes and skin, harmful if swallowed.

### Potential Health Effects

Routes of entry: (skin: yes) (inhalation: yes) (ingestion: yes) (eye: yes)

### Inhalation:

Inhalation of mist or vapor may cause severe irritation of the respiratory tract that usually subsides after exposure ceases.

### Eye Contact:

Vapors may irritate eyes. Direct contact with eyes will be painful and irritating may also cause possible permanent damage.

### Skin Contact:

Exposure may cause skin irritation, drying, chapping.

### Ingestion:

If swallowed will cause irritation and corrosion of the gastrointestinal tract.

## SECTION 4 – FIRST AID MEASURES

**Inhalation:** Remove to fresh air Get medical attention immediately.

**Eye Contact:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention.

**Skin Contact:** Flush thoroughly with cool water while removing any contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists after washing.

**Ingestion:** Get medical attention immediately. Drink water or milk to dilute (if directed to so by medical professional). Do not induce vomiting. Never give anything by mouth to an unconscious person.

# MATERIAL SAFETY DATA SHEET

## SECTION 5 – Fire Fighting Measures

Flashpoint: Non-Flammable, Non-Combustible.

Flammable Limits: N/A

Auto ignition Temperature: N/A

### General Hazard:

During a fire smoke may contain the original material in addition to toxic and or irritating compounds. Avoid heat sparks or open flame. Decomposition releases oxygen, which can intensify the fire.

### Fire Fighting Instructions:

Use dry chemical or CO<sub>2</sub>, water or water fog, or foam. Keep people away from fire, isolate fire area and deny unnecessary entry.

### Fire fighting equipment:

Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NICS/MSHA APPROVED).

### Hazardous combustion products:

Decomposition releases oxygen, which supports combustion.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Small Spills:** Wipe or mop up and dispose of in DOT approved waste container, wear protective clothing.

**Large Spills:** Wear protective clothing, contain by diking with soil or other non-combustible absorbent material, then dispose into DOT approved waste container. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.

Contain all spills or leaks to prevent discharge into the environment. All spills or releases should be reported to the appropriate local, state and federal agencies.

## SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

For use by professionals ONLY.

Avoid breathing vapors of this product.

Always ensure good ventilation of surroundings during use of this chemical. Do not use this chemical in a poorly ventilated area.

Always keep container tightly closed and properly labels.

Avoid contact with skin, eyes or clothing.

Wash thoroughly after handling

Loosen closures cautiously.

Storage temperature: Store in cool dry place

Storage pressure: Atmospheric

Avoid excessive heat.

Avoid storage with reducing agents or combustible organic materials.

## SECTION 8 – EXPOSURE / PERSONAL PROTECTION

### EXPOSURE LIMITS

Not established for this mixture. However limits available for primary peroxygen component are listed below.

Eye contact (rabbit) ... Corrosive

Skin contact (rabbit) ... Mildly irritating after 4 hours

Inhalation LC50 (rat)... >.17 mg/m<sup>3</sup>

Ingestion... Practically non toxic LD50 (rat) 1193 mg/kg

MSDS Product: Urine Stain Remover

Page 2 of 5, Revised Date: 01/01/2009



# MATERIAL SAFETY DATA SHEET

**Respiratory:** These precautions are not usually necessary in adequately ventilated areas. Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA –approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

**Ventilation:** Always assure adequate ventilation.

**Eye Protection:** Wear safety goggles to protect against contact when appropriate.

**Skin:** Wear protective clothing to minimize skin contact. Wash skin after use. Wash contaminated clothing and dry before reuse.

## **Other**

One should always use chemicals with an awareness of the potential hazard of the effect on the human system. To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

## **SECTION 9 – Physical and Chemical properties**

PH: 4.0

Vapor pressure: mm/hg = 30

Vapor density: not available

Boiling point: 102C

Freezing/Melting point: -6C

Solubility in water: soluble

Density: gms/ml = 1.03

Flammability: not flammable

Particle size: N/A

Evaporation rate: not available

## **SECTION 10 – Stability and Reactivity**

**Chemical Stability:** Unstable

**Conditions to avoid:** Keep away from heat or excessive pressure. Do not contaminate.

**Incompatibility with other materials:** Heavy metals, combustible organic materials, reducing agents..

**Hazardous decomposition products:** There are no known hazardous decomposition materials of this mixture.

**Hazardous polymerization:** Oxygen, which supports combustion.

## **Section 11- Toxicological Information**

Toxicological information not available on this mixture. However information available for the major peroxygen component is listed below.

LD50 (rat) 1193 mg/kg

## **Section 12- Ecological Information**

Ecological information not established on this mixture.

# MATERIAL SAFETY DATA SHEET

## Section 13- Disposal practices

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Province and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

## Section 14- Transport information

Shipping Instructions as shipped are: ORMD/LTD QTY Exemptions Used 173.152 LTD QTY & ORM-D  
Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.

## Section 15- Regulatory Information

US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, MSDS sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this material safety data sheet (MSDS) available to your employees and those who handle or consume the product.

To aid our customers in complying with regulatory requirements regulatory information for components of this product are indicated below.

This mixture has *no established regulatory information* all regulatory information given is based on individual components of the mixture by component number.

### EC Safety (S) and Risk (R) Phrases

#### S Phrases

2, 26, 46, 51

#### R Phrases

37, 38

#### NFPA Ratings:

H- 2

F- 0

R- 1 (corrosive)

## Section 16- Other Information

All information appearing herein is based upon data obtained from the manufacturer and /or recognized technical sources of each individual component. While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTI's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use

MSDS Product: Urine Stain Remover

Page 4 of 5, Revised Date: 01/01/2009

## **MATERIAL SAFETY DATA SHEET**

of, or reliance on information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

**Legend:**

**References:**

# MATERIAL SAFETY DATA SHEET

ARA

Date revised: 01/01/2009

## SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: ARA  
Product Use: Anti Re-Soiling Agent

### MANUFACTURER

CTI (Chemical Technologies International Inc.)

PO Box 968

Rancho Cordova, CA 95741

Phone: (916) 638-1315 Fax: (916) 638-0712

Emergency Assistance Calls: Chemtrec (800) 424-9300 (U.S.A.) 24hrs.

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

### COMPONENT

### CAS #

1. Trade Secret

Mixture

This product contains no reportable hazardous ingredients.

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

## SECTION 3 – Hazards Identification

Clear liquid with light mint smell.

### Emergency Overview

### Potential Health Effects

Routes of entry: (skin: yes) (inhalation: yes) (ingestion: yes) (eye: yes)

### **Inhalation:**

Prolonged overexposure to vapors and spray mist in poorly ventilated areas may cause nose and throat irritation.

### **Eye Contact:**

Direct contact with product may cause irritation.

### **Skin Contact:**

Repeated or prolonged exposure may cause skin irritation.

### **Ingestion:**

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

**Chronic effects:** Not established.

## SECTION 4 – FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If breathing stops administer artificial respiration. Get medical attention immediately.

**Eye Contact:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention immediately.

**Skin Contact:** Flush thoroughly with cool water while removing any contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists after washing.

**Ingestion:** Get medical attention immediately.

## SECTION 5 – Fire Fighting Measures

Flashpoint: lowest closed cup flashpoint 201.0 degrees F.

Flammable Limits: N/A

MSDS Product: ARA

Page 1 of 4, Revised Date: 01/01/2009

# MATERIAL SAFETY DATA SHEET

Auto-ignition Temperature: N/A

## General Hazard:

None published.

## Fire Fighting Instructions:

Use dry chemical or CO2. Use water (only to cool) nearby containers and structures exposed to fire. Direct water stream may spread fire. Keep people away from fire, isolate fire area and deny unnecessary entry.

## Fire fighting equipment:

Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NICS/MSHA APPROVED).

## Hazardous combustion products:

None known.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Small Spills: Wipe or mop up and dispose of in DOT approved waste container.

Large Spills: Contain by diking with soil or other non-combustible absorbent material, then dispose into DOT approved waste container. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.

Contain all spills or leaks to prevent discharge into the environment. All spills or releases should be reported to the appropriate local, state and federal agencies.

## SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

For use by professionals ONLY.

Avoid breathing vapors of this product.

Always ensure good ventilation of surroundings during use of this chemical. Do not use this chemical in a poorly ventilated area.

Always keep container tightly closed and properly labels.

Avoid contact with skin, eyes or clothing.

Wash thoroughly after handling

Storage temperature: store in cool dry place

Storage pressure: Atmospheric

Avoid excessive heat.

## SECTION 8 – EXPOSURE / PERSONAL PROTECTION

COMPONENT # (Refer to section 2 for component #)	EXPOSURE LIMITS			HAZARD
	OSHA PEL	ACGIH TLV	OTHER LIMIT	
1	Not published	Not published	Not published	None

Respiratory: These precautions are not usually necessary in adequately ventilated areas. Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA –approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

Ventilation: Always assure adequate ventilation.

MSDS Product: ARA

Page 2 of 4, Revised Date: 01/01/2009

## MATERIAL SAFETY DATA SHEET

Eye Protection: Wear safety goggles to protect against contact when appropriate.

Other:

One should always use chemicals with an awareness of the potential hazard of the effect on the human system. To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

### SECTION 9 – Physical and Chemical properties

Clear liquid with light mint smell.

PH: 8.0

Vapor pressure: not available

Vapor density: not available

Boiling point: 100C

Freezing/Melting point: N/A

Solubility in water: soluble

Density:

Flammability: not established

Particle size: N/A

Evaporation rate: not available

Viscosity: N/A

### SECTION 10 – Stability and Reactivity

Chemical Stability: Stable under ambient temperature and atmospheric pressure. Stable under recommended storage and handling conditions.

Conditions to avoid: Keep away from heat or excessive pressure.

Incompatibility with other materials: Although the mixture has no known incompatibilities, some components of this mixture are not compatible with acids, metals, oxidizing or reducing materials.

Hazardous decomposition products: There are no known hazardous decomposition materials of this mixture; some components of this mixture may liberate sulfur dioxide, carbon monoxide, carbon dioxide, and hydrogen sulfide.

Hazardous polymerization: Major components of this mixture show no hazardous polymerization.

### Section 11- Toxicological Information

Toxicological information not available on this mixture.

### Section 12- Ecological Information

Ecological information not established on this mixture.

### Section 13- Disposal practices

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

# MATERIAL SAFETY DATA SHEET

## Section 14- Transport information

Not a hazardous material as shipped per 49 CFR table 172.101

Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.

## Section 15- Regulatory Information

US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, MSDS sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this material safety data sheet (MSDS) available to your employees and those who handle or consume the product.

To aid our customers in complying with regulatory requirements regulatory information for components of this product are indicated below.

- 1 This mixture has no established regulatory information.

## Section 16- Other Information

All information appearing herein is based upon data obtained from the manufacturer and /or recognized technical sources of each individual component. While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTI's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product-designated herein, and does not relate to its use in combination with any other material or in any other process.

**Legend:**

**References:**

# MATERIAL SAFETY DATA SHEET

Molecular Modifier

Date Prepared: 01/01/2009

## SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: Molecular Modifier  
Product Use: Odor control

### MANUFACTURER

CTI (Chemical Technologies International Inc.)

3241 Fitzgerald Road #B

Rancho Cordova, CA 95742

Phone: (916) 638-1315 Fax: (916) 638-0712

Emergency Assistance Calls: Chemtrec (800) 424-9300 (U.S.A.) 24hrs.

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS #
1. Viable bacteria / enzyme cultures	7732-18-5
2. Odor modifier blend	N/A

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

## SECTION 3 – Hazards Identification

Off white liquid with light floral / powder scent.

### Emergency Overview

### Potential Health Effects

Routes of entry: (skin: yes) (inhalation: yes) (ingestion: yes) (eye: yes)

### **Inhalation:**

Prolonged overexposure to vapors and spray mist in poorly ventilated areas may cause nose and throat irritation.

### **Eye Contact:**

Direct contact with product may cause irritation.

### **Skin Contact:**

Repeated or prolonged exposure may cause skin irritation.

### **Ingestion:**

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

**Chronic effects:** Not established.

## SECTION 4 – FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If breathing stops administer artificial respiration. Get medical attention immediately.

**Eye Contact:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Get medical attention if irritation persists.

**Skin Contact:** Flush thoroughly with cool water while removing any contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists after washing.

**Ingestion:** Get medical attention immediately.

## SECTION 5 – Fire Fighting Measures

Flashpoint: N/A

Flammable Limits: N/A

Auto ignition Temperature: N/A



# MATERIAL SAFETY DATA SHEET

**General Hazard:**

None published.

**Fire Fighting Instructions:**

Use dry chemical , CO2, foam, or water spray. Keep people away from fire, isolate fire area and deny unnecessary entry.

**Fire fighting equipment:**

Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NICS/MSHA APPROVED).

**Hazardous combustion products:**

None known.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Small Spills: Wipe or mop up and dispose of in DOT approved waste container.

Large Spills: Contain by diking with soil or other non-combustible sorbent material, then dispose into DOT approved waste container. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.

Contain all spills or leaks to prevent discharge into the environment. All spills or releases should be reported to the appropriate local, state and federal agencies.

## SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

For use by professionals ONLY.

Avoid breathing vapors of this product.

Always ensure good ventilation of surroundings during use of this chemical. Do not use this chemical in a poorly ventilated area.

Always keep container tightly closed and properly labels.

Avoid contact with skin, eyes or clothing.

Wash thoroughly after handling

Storage temperature: store in cool dry place

Storage pressure: Atmospheric

Avoid excessive heat.

## SECTION 8 – EXPOSURE / PERSONAL PROTECTION

COMPONENT # (Refer to section 2 for component #)	EXPOSURE LIMITS			HAZARD
	OSHA PEL	ACGIH TLV	OTHER LIMIT	
1	None Assigned	None Assigned		
3.	Not established	Not established		

Respiratory: These precautions are not usually necessary in adequately ventilated areas. Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA –approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive

MSDS Molecular Modifier

Page 2 of 4, Revised Date: 01/01/2009

## MATERIAL SAFETY DATA SHEET

pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

Ventilation: Always assure adequate ventilation.

Eye Protection: Wear safety goggles to protect against contact *when appropriate*.

Skin: Wear protective clothing to minimize skin contact. Wash skin after use. Wash contaminated clothing and dry before reuse.

Other: Emergency shower and eyewash facility of some kind should be in close proximity.

One should always use chemicals with an awareness of the potential hazard of the effect on the human system.

To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

### SECTION 9 – Physical and Chemical properties

PH: 7.0

Vapor pressure: not available

Vapor density: not available

Boiling point: not available

Freezing/Melting point: N/A

Solubility in water: soluble

Heat Value: not available

Particle size: N/A

Evaporation rate: not available

Viscosity: N/A

### SECTION 10 – Stability and Reactivity

Chemical Stability: Stable under ambient temperature and atmospheric pressure. Stable under recommended storage and handling conditions.

Conditions to avoid: Keep away from heat or excessive pressure; do not store with strong acids or alkali compounds, as they will inactivate biological cultures.

Incompatibility with other materials: Do not store with strong acids or alkali compounds, as they will inactivate biological cultures.

Hazardous decomposition products: There are no known hazardous decomposition materials of this mixture.

Hazardous polymerization: Major components of this mixture show no hazardous polymerization.

### Section 11- Toxicological Information

Toxicological information not available on this mixture.

### Section 12- Ecological Information

Ecological information not available on this mixture.

### Section 13- Disposal practices

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this MSDS Molecular Modifier

## MATERIAL SAFETY DATA SHEET

material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

### Section 14- Transport information

Not a hazardous material as shipped per 49 CFR table 172.101

Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.

### Section 15- Regulatory Information

US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, MSDS sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this material safety data sheet (MSDS) available to your employees and those who handle or consume the product.

To aid our customers in complying with regulatory requirements regulatory information for components of this product are indicated below.

**This mixture has no established regulatory information.**

### Section 16- Other Information

All information appearing herein is based upon data obtained from the manufacturer and /or recognized technical sources of each individual component. While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTI's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product-designated herein, and does not relate to its use in combination with any other material or in any other process.

# MATERIAL SAFETY DATA SHEET

Stain Guardian

Date Revised: 01/01/2009

## SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: Stain Guardian Ultra  
Product Use: Textile protector

### MANUFACTURER

CTI (Chemical Technologies International Inc.)  
PO Box 968  
Rancho Cordova, CA 95741  
Phone: (916) 638-1315 Fax: (916) 638-0712  
Emergency Assistance Calls: Chemtrec (800) 424-9300 (U.S.A.) 24hrs.

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS #
Aqueous Polymer blend	N/A

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

## SECTION 3 – Hazards Identification

This product contains no reportable quantities of hazardous ingredients.

### Emergency Overview

Appearance: Opaque odorless liquid.

### Potential Health Effects

Routes of entry: (skin: yes) (inhalation: yes) (ingestion: yes) (eye: yes)

### **Inhalation:**

Excessive inhalation may cause irritation of the respiratory tract.

### **Eye Contact:**

May irritate eyes

### **Skin Contact:**

Repeated exposure may cause skin irritation, drying, chapping.

### **Ingestion:**

If swallowed can cause GI irritation.

**Chronic effects:** Not established.

## SECTION 4 – FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If breathing stops administer artificial respiration. Get medical attention immediately.

**Eye Contact:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention if irritation persists.

**Skin Contact:** Flush thoroughly with cool water while removing any contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists after washing.

**Ingestion:** Get medical attention immediately.

Drink milk or water if directed to do so by your medical professional. Never give anything by mouth to an unconscious person.

## SECTION 5 – Fire Fighting Measures

This product is non-flammable and non-combustible.

Flashpoint: Not Available

Flammable Limits: Not Available

Auto ignition Temperature: Not Available

MSDS Product: Stain Guardian

Page 1 of 4, Revised Date: 01/01/2009

# MATERIAL SAFETY DATA SHEET

## General Hazard:

During a fire smoke may contain the original material in addition to toxic and or irritating compounds. Avoid heat sparks or open flame.

## Fire Fighting Instructions:

Use water fog, dry chemical, alcohol foam, or CO2.

## Fire fighting Equipment:

Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NICSH/MSHA APPROVED).

## Hazardous combustion products:

May product toxic combustion products.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Small Spills:** Dispose of in DOT approved waste container.

**Large Spills:** Dispose into DOT approved waste container. If possible complete clean up on a dry basis. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.

Contain all spills or leaks to prevent discharge into the environment. All spills or releases need to be reported to the appropriate local, state and federal agencies.

## SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

For use by professionals ONLY.

Avoid breathing this product.

Always ensure good ventilation of surroundings during use of this chemical. Do not use this chemical in a poorly ventilated area.

Always keep container tightly closed and properly labeled.

Avoid contact with skin, eyes or clothing.

Wash thoroughly after handling

**Storage temperature:** store in cool dry place

**Storage pressure:** Atmospheric

## SECTION 8 – EXPOSURE / PERSONAL PROTECTION

COMPONENT # (Refer to section 2 for component #)	EXPOSURE LIMITS				HAZARD
	OSHA PEL	ACGIH TLV	OTHER LIMIT		
1	NOT EST.	NOT EST.	NOT EST.	NOT EST.	

**Respiratory:** These precautions are not usually necessary in adequately ventilated areas. Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA –approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**Ventilation:** Always assure adequate ventilation.

**Eye Protection:** Wear safety goggles to protect against contact when appropriate.

**Skin:** Wear protective clothing to minimize skin contact. Wash skin after use. Wash contaminated clothing and dry before reuse.

One should always use chemicals with an awareness of the potential hazard of the effect on the human system.

To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

## SECTION 9 – Physical and Chemical properties

Opaque odorless liquid

PH: 6

Vapor density: not available

Boiling point: 100 C (212 F)

Freezing/Melting point: N/A

MSDS Product: Stain Guardian

Page2 of 4, Revised Date: 01/01/2009

# MATERIAL SAFETY DATA SHEET

Solubility in water: miscible.  
Density: not available  
Flammability: not established  
Evaporation rate: not available  
Viscosity: not available

## SECTION 10 – Stability and Reactivity

Chemical Stability: Stable under ambient temperature and atmospheric pressure. Stable under recommended storage and handling conditions.

Conditions to avoid: None known.

Incompatibility with other materials: None known.

Possibility of hazardous reactions: None expected.

## Section 11- Toxicological Information

Toxicological information has not been established on this product.

## Section 12- Ecological Information

1 Ecological information not established on this mixture

## Section 13- Disposal practices

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

## Section 14- Transport information

U.S. Department of Transportation (DOT):

Not regulated for this mode of transport

International Maritime Dangerous Goods (IMDG):

Not regulated for this mode of transport.

International Air Transportation Authority (IATA):

Not regulated for this mode of transport

## Section 15- Regulatory Information

US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, MSDS sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this material safety data sheet (MSDS) available to your employees and those who handle or consume the product.

To aid our customers in complying with regulatory requirements regulatory information for components of this product are indicated below.

## MATERIAL SAFETY DATA SHEET

This mixture has no established regulatory information all regulatory information given is based on individual components of the mixture by component number.

### Federal Regulations

**OSHA hazardous Substance:** This material is classified as not hazardous under OSHA regulations

**Clean Air Act – Hazardous Air Pollutants (HAP):** This product does not contain any SOCM Intermediate or Final **Volatile Organic Compounds (VOC)**; as defined by the U.S. Clean Air Act Section 111 (40 CFR 60.489).

**Clean Air Act – Ozone Depleting Substances (ODS):** This product neither contains, nor was manufactured with, a Class I or Class II ozone depleting substance (ODS), as defined by the U.S. Clean Air Act Section 602 (40 CFR 261.21).

**Clean Water Act – Priority Pollutants (PP):** This product does not contain any priority pollutants listed under the U.S. Clean Water Act Section 307 (2) (1) Priority Pollutant List (40 CFR 401.15).

**Resource Conservation and Recovery Act (RCRA):** Not a hazardous waste under RCRA (40 CFR 261.21).

**SARA Section 302 Extremely Hazardous Substances (EHS):** This product does not contain any components regulated under Section 302 (40 CFR 355) as Extremely Hazardous Substances.

**SARA Section 304 CERCLA Hazardous Substances:** This product does not contain any components regulated under Section 304 (40 CFR 302) as hazardous chemicals for emergency release notification ("CERCLA" List).

**SARA Section 311/312 Hazard Communication Standard (HCS):** This product is not regulated under Section 311/312 HCS (40 CFR 370).

**SARA Section 313 Toxic Chemical List (TCL):** This product does not contain any component(s) listed on the section 313 Toxic Chemical List.

**TSCA Section 8(b) Inventory Status:** All component(s) comprising this product are either exempt or listed on the TSCA inventory.

**TSCA Section 5(e) Consent Orders:** This product is not subject to a Section 5(e) Consent Order.

**TSCA Significant New Use Rule (SNUR):** This product is not subject to a Significant New Use Rule (SNUR).

**TSCA Section 5(f):** This product is not subject to a Section 5(f)/6(a) rule.

NFPA:

H = 1 F=0 R=0

EC Safety (S) and Risk (R) Phrases

S2, S26, S46

### Section 16- Other Information

All information appearing herein is based upon data obtained from the manufacturer and /or recognized technical sources of each individual component. While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTI's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product-designated herein, and does not relate to its use in combination with any other material or in any other process.

**Legend:**

**References:**

# MATERIAL SAFETY DATA SHEET

OSR

Date Prepared: 01-01-2009

## SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: OSR  
Product Use: Odor and Stain Remover

### MANUFACTURER

CTI (Chemical Technologies International Inc.)

P.O. Box 968

Rancho Cordova, CA 95741

Phone: (916) 638-1315 Fax: (916) 638-0712

Emergency Assistance Calls: Chemtrec (800) 424-9300 (U.S.A.) 24hrs.

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS #
-----------	-------

Proprietary blend of oxidizers, surface active agents, and deodorizers.	N/A
---	-----

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

## SECTION 3 – Hazards Identification

### Emergency Overview

Can cause skin irritation, respiratory irritation. Can cause eye damage. Effects may be delayed.

### Potential Health Effects

Routes of entry: (skin: yes) (inhalation: yes) (ingestion: yes) (eye: yes)

### **Inhalation:**

Excessive inhalation may cause irritation of the respiratory tract. May cause injury to the respiratory system.

### **Eye Contact:**

Direct or prolonged contact with eyes will be painful and irritating may also cause possible permanent damage.

### **Skin Contact:**

Repeated exposure may cause skin irritation, drying, chapping.

### **Ingestion:**

If swallowed can cause GI irritation.

May cause severe irritation to the upper respiratory tract

**Chronic effects:** Not established.

## SECTION 4 – FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, or symptoms such as coughing occur even if symptoms occur several hours after exposure, Get medical attention immediately.

**Eye Contact:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention immediately.

**Skin Contact:** Flush thoroughly with cool water while removing any contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists after washing.

**Ingestion:** Get medical attention immediately.

Do not induce vomiting. Never give anything by mouth to an unconscious person. If directed by medical professional, give large quantities of water or milk. If vomiting occurs spontaneously, keep airway clear.

## SECTION 5 – Fire Fighting Measures

MSDS Product: OSR

Page 1 of 4, Revised Date: 01-01-2009



## MATERIAL SAFETY DATA SHEET

Flashpoint: N/A

Flammable Limits: Not Available

Auto ignition Temperature: Not Available

### General Hazard:

During a fire smoke may contain the original material in addition to toxic and or irritating compounds. May initiate spontaneous combustion of paper, wood, cloth, and other organic materials.

### Fire Fighting Instructions:

Use dry chemical, CO<sub>2</sub>, or water foam. Use water (only to cool) nearby containers and structures exposed to fire.

### Fire fighting Equipment:

Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NIOSH/MSHA APPROVED).

### Hazardous combustion products:

Oxygen released during decomposition can intensify fire.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Small Spills:** Sweep up and dispose of in DOT approved waste container.

**Large Spills:** Scoop or sweep up and dispose into DOT approved waste container. If possible complete clean up on a dry basis. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.

Contain all spills or leaks to prevent discharge into the environment. All spills or releases need to be reported to the appropriate local, state and federal agencies.

## SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

The manufacturer and seller warrant that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

For use by professionals ONLY.

Avoid breathing the dust of this product.

Always ensure good ventilation of surroundings during use of this chemical

Always keep container tightly closed and properly labeled.

Avoid contact with skin, eyes or clothing.

Wash thoroughly after handling

**Storage temperature:** store in cool dry place

**Storage pressure:** Atmospheric

Avoid excessive heat.

Avoid storage with organic materials or reducers..

## SECTION 8 – EXPOSURE / PERSONAL PROTECTION

Exposure limits have not been established for this mixture.

**Respiratory:** These precautions are not usually necessary in adequately ventilated areas. Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA –approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

**Ventilation:** Always assure adequate ventilation.

**Eye Protection:** Wear safety goggles to protect against contact when appropriate.

## MATERIAL SAFETY DATA SHEET

Skin: Wear protective clothing to minimize skin contact. Wash skin after use. Wash contaminated clothing and dry before reuse.

Other:

One should always use chemicals with an awareness of the potential hazard of the effect on the human system. To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

### SECTION 9 – Physical and Chemical properties

White, granular powder with light smell.

PH: at 1% aqueous solution = 10

Vapor density: N/A

Boiling point: not available

Freezing/Melting point: N/A

Solubility in water: soluble

Density: not available

Flammability: not established

Particle size: various

Evaporation rate: N/A

Viscosity: N/A

### SECTION 10 – Stability and Reactivity

Chemical Stability: Stable under ambient temperature and atmospheric pressure. Stable under recommended storage and handling conditions.

Conditions to avoid: Keep away from heat or excessive pressure.

Incompatibility with other materials: Incompatible with combustible organic materials and reducing agents or strong acids.

Hazardous decomposition products: There are no known hazardous decomposition materials of this mixture.

Hazardous polymerization: Major components of this mixture show no hazardous polymerization.

### Section 11- Toxicological Information

1 Toxicological information not available on this mixture

### Section 12- Ecological Information

Ecological information not established on this mixture.

### Section 13- Disposal practices

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations.

## MATERIAL SAFETY DATA SHEET

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

### Section 14- Transport information

Not a hazardous material as shipped per 49 CFR table 172.101

Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.

### Section 15- Regulatory Information

US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, MSDS sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this material safety data sheet (MSDS) available to your employees and those who handle or consume the product.

To aid our customers in complying with regulatory requirements regulatory information for components of this product are indicated below.

This mixture has no established regulatory information all regulatory information given is based on individual components of the mixture by component number.

1 Not Reported.

Other:

EC Safety(S) and Risk(R) Phrases:

S2, S26, S46, S51

R36, R37, R38

NFPA:

Health:2

Fire: 0

Reactivity:1

Special: OX

### Section 16- Other Information

All information appearing herein is based upon data obtained from the manufacturer and /or recognized technical sources of each individual component. While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTI's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product-designated herein, and does not relate to its use in combination with any other material or in any other process.

**Legend:**

**References:**

# MATERIAL SAFETY DATA SHEET

SCR (Soil Crystallizing Rinse)

Date Prepared: 01/01/2009

## SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: SCR (Soil Crystallizing Rinse)

Product Use:

### MANUFACTURER

CTI (Chemical Technologies International Inc.)

PO Box 968

Rancho Cordova, CA 95741

Phone: (916) 638-1315 Fax: (916) 638-0712

Emergency Assistance Calls: Chemtrec (800) 424-9300 (U.S.A.) 24hrs.

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

### COMPONENT

### CAS #

1. Trade Secret (detergent polymer blend)

Mixture

2. Diphosphoric acid sodium salt

7722-88-5

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

## SECTION 3 – Hazards Identification

Clear liquid with light odor

### Emergency Overview

### Potential Health Effects

Routes of entry: (skin: yes) (inhalation: yes) (ingestion: yes) (eye: yes)

### Inhalation:

Prolonged overexposure to vapors and spray mist in poorly ventilated areas may cause irritation.

### Eye Contact:

Direct contact with product may cause irritation.

### Skin Contact:

Repeated or prolonged exposure may cause irritation.

### Ingestion:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

**Chronic effects:** Not established.

## SECTION 4 – FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If breathing stops administer artificial respiration. Get medical attention immediately.

**Eye Contact:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention immediately.

**Skin Contact:** Flush thoroughly with cool water while removing any contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists after washing.

**Ingestion:** Get medical attention immediately.

## SECTION 5 – Fire Fighting Measures

Flashpoint: not established

Flammable Limits: N/A

Auto-ignition Temperature: N/A

# MATERIAL SAFETY DATA SHEET

**General Hazard:**

None published.

**Fire Fighting Instructions:**

Use dry chemical or CO2. Use water (only to cool) nearby containers and structures exposed to fire. Direct water stream may spread fire. Keep people away from fire, isolate fire area and deny unnecessary entry.

**Fire fighting equipment:**

Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NICS/MSHA APPROVED).

**Hazardous combustion products:**

None known.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Small Spills: Wipe or mop up and dispose of in DOT approved waste container.

Large Spills: Contain by diking with soil or other non-combustible absorbent material, then dispose into DOT approved waste container. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste. Contain all spills or leaks to prevent discharge into the environment. All spills or releases should be reported to the appropriate local, state and federal agencies.

## SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

The manufacturer and seller warrant that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

For use by professionals ONLY.

Avoid breathing vapors of this product.

Always ensure good ventilation of surroundings during use of this chemical. Do not use this chemical in a poorly ventilated area.

Always keep container tightly closed and properly labels.

Avoid contact with skin, eyes or clothing.

Wash thoroughly after handling

Storage temperature: store in cool dry place

Storage pressure: Atmospheric

Avoid excessive heat.

## SECTION 8 – EXPOSURE / PERSONAL PROTECTION

		<u>EXPOSURE LIMITS</u>			
<u>COMPONENT</u>	<u>#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OTHER LIMIT</u>	<u>HAZARD</u>
<u>Exposure limits have not been set for this mixture.</u> Limits given are for components as listed in section 2.					
	1.	Not published	Not published		
	2.		5mg/m3		

**Respiratory:** These precautions are not usually necessary in adequately ventilated areas. Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA –approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

**Ventilation:** Always assure adequate ventilation.

**Eye Protection:** Wear safety goggles to protect against contact when appropriate.

**Skin:** Wear protective clothing to minimize skin contact. Wash skin after use. Wash contaminated clothing and dry before reuse.

MSDS Product: SCR (Soil Crystallizing Rinse)

2 of 4 01/01/2009

## MATERIAL SAFETY DATA SHEET

Other: Emergency shower and eyewash facility of some kind should be in close proximity.  
One should always use chemicals with an awareness of the potential hazard of the effect on the human system.  
To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

### SECTION 9 – Physical and Chemical properties

Clear liquid with light odor  
PH: 10.0  
Vapor pressure: not available  
Vapor density: not available  
Boiling point: not available  
Freezing/Melting point: N/A  
Solubility in water: soluble  
Density: N/A  
Flammability: not established  
Particle size: N/A  
Evaporation rate: not available  
Viscosity: N/A

### SECTION 10 – Stability and Reactivity

Chemical Stability: Stable under ambient temperature and atmospheric pressure. Stable under recommended storage and handling conditions.

Conditions to avoid: Keep away from heat or excessive pressure.

Incompatibility with other materials: Although the mixture has no known incompatibilities, some components of this mixture are not compatible with acids, metals, oxidizing or reducing materials.

Hazardous decomposition products: There are no known hazardous decomposition materials of this mixture; some components of this mixture may liberate sulfur dioxide, carbon monoxide, carbon dioxide, and hydrogen sulfide.

Hazardous polymerization: Major components of this mixture show no hazardous polymerization.

### Section 11- Toxicological Information

Toxicological information not available on this mixture. Limits given are for components as listed in section 2.

1. Not established
2. LD50 rat oral 3770 mg/kg

### Section 12- Ecological Information

Ecological information not established on this mixture.

### Section 13- Disposal practices

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

# MATERIAL SAFETY DATA SHEET

## Section 14- Transport information

Not a hazardous material as shipped per 49 CFR table 172.101

Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.

## Section 15- Regulatory Information

US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, MSDS sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this material safety data sheet (MSDS) available to your employees and those who handle or consume the product.

EC Safety(S) and Risk(R) Phrases:

S2, S26, S46

NFPA:

Health:1 Fire: 0 Reactivity: 0

## Section 16- Other Information

All information appearing herein is based upon data obtained from the manufacturer and /or recognized technical sources of each individual component. While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTI's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product-designated herein, and does not relate to its use in combination with any other material or in any other process.

**Legend:**

**References:**

# MATERIAL SAFETY DATA SHEET

EXTREME CLEAN

Date Revised: 01/01/2009

## SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: Extreme Clean  
Product Use: Carpet cleaning pre-spray

### MANUFACTURER

CTI (Chemical Technologies International Inc.)  
PO BOX 968  
Rancho Cordova, CA 95741  
Phone: (916) 638-1315 Fax: (916) 638-1315  
Emergency Assistance Calls: Chemtrec (800) 424-9300

## SECTION 2 – HAZARDOUS INGREDIENTS

COMPONENT	CAS #
1. PENTASODIUM TRIPHOSPHATE OCTYLPHENOXYPOLY-	7758-29-4
2. ETHOXYETHANOL	9036-19-5
3. SODIUM TRIOXOSILICATE	6834-92-0
4. CALCINED SODA	497-19-8
5. P-1,8(9)-METHADIENE	5989-27-5
6. METHOXYPROPANOL	108-65-6
7. SURFACTANT BLEND	NOT ESTABLISHED

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

## SECTION 3 – Hazards Identification

### Emergency Overview

White granular powder mixture, with light citrus smell.

Avoid breathing dust. Irritating to respiratory and digestive tract, eyes and skin, harmful if swallowed.

### Potential Health Effects

Routes of entry: (skin: yes) (inhalation: yes) (ingestion: yes) (eye: yes)

### Inhalation:

Excessive inhalation may cause irritation of the respiratory tract.

### Eye Contact:

Dust may irritate eyes. Direct or prolonged contact with eyes will be painful and irritating may also cause possible permanent damage.

### Skin Contact:

Repeated exposure may cause skin irritation, drying, chapping.

### Ingestion:

If swallowed can cause GI tract irritation.

Chronic effects: Not established.

## SECTION 4 – First Aid Measures

**Inhalation:** Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If breathing stops administer artificial respiration. Get medical attention immediately.

**Eye Contact:** Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention if irritation persists.



## MATERIAL SAFETY DATA SHEET

**Skin Contact:** Flush thoroughly with cool water while removing any contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation persists after washing.

**Ingestion:** Get medical attention immediately.

### SECTION 5 – Fire Fighting Measures

Flashpoint: Not Available

Flammable Limits: Not Available

Auto ignition Temperature: Not Available

**General Hazard:** During a fire smoke may contain the original material in addition to toxic and or irritating compounds. Avoid heat sparks or open flame.

**Fire Fighting Instructions:** Use dry chemical or CO<sub>2</sub>. Use water (only to cool) nearby containers and structures exposed to fire. Direct water stream may spread fire. Keep people away from fire, isolate fire area and deny unnecessary entry.

**Fire fighting equipment:** Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NICS/MSHA APPROVED).

**Hazardous combustion products:** Carbon monoxide & Carbon dioxide.

### SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Small Spills:** Sweep up and dispose of in DOT approved waste container.

**Large Spills:** Scoop or sweep up and dispose into DOT approved waste container. If possible complete clean up on a dry basis. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.

Contain all spills or leaks to prevent discharge into the environment. All spills or releases need to be reported to the appropriate local, state and federal agencies.

### SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

The manufacturer and seller warrant that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

For use by professionals ONLY

Avoid breathing the dust of this product.

Always ensure good ventilation of surroundings during use of this chemical. Do not use this chemical in a poorly ventilated area.

Always keep container tightly closed and properly labeled.

Avoid contact with skin, eyes or clothing.

Wash thoroughly after handling

**Storage temperature:** store in cool dry place

**Storage pressure:** Atmospheric

Avoid excessive heat. Avoid storage with oxidizing or reducing agents, acids.

### SECTION 8 – EXPOSURE / PERSONAL PROTECTION

COMPONENT #	EXPOSURE LIMITS	
	OSHA PEL	ACGIH TVL
1.	NOT ESTABLISHED	
2.	5 PPM	1PPM TWA8
3.	2MG/M3	2MG/M3
4.	NOT ESTABLISHED	
5.	NOT ESTABLISHED	
6.		100 PPM
7.	NOT ESTABLISHED	

MSDS Product: Extreme Clean Powder

Page - 2 - of 4, Revised Date: 01/01/2009

## MATERIAL SAFETY DATA SHEET

**Respiratory:** These precautions are not usually necessary in adequately ventilated areas. Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA –approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

**Ventilation:** Always assure adequate ventilation.

**Eye Protection:** Wear safety goggles to protect against contact when appropriate.

**Skin:** Wear protective clothing to minimize skin contact. Wash skin after use. Wash contaminated clothing and dry before reuse.

**Other:** One should always use chemicals with an awareness of the potential hazard of the effect on the human system.

To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

### SECTION 9 – Physical and Chemical properties

White, granular powder with light citrus smell

PH: at 1% aqueous solution = 10.5

Vapor Pressure: N/A

Vapor Density: N/A

Boiling Point: N/A

Freezing/Melting point: N/A

H<sub>2</sub>O Soluble

Density: N/A

Flammability: Not established

Particle size: various

Evaporation rate: N/A

Viscosity: N/A

### SECTION 10 – Stability and Reactivity

**Chemical Stability:** Stable under ambient temperature and atmospheric pressure. Stable under recommended storage and handling conditions.

**Conditions to avoid:** Keep away from heat or excessive pressure.

**Incompatibility with other materials:** Although the mixture has no known incompatibilities, some components of this mixture are not compatible with acids or combustible organic matter.

**Hazardous decomposition products:** There are no known hazardous decomposition materials of this mixture.

**Hazardous polymerization:** Major components of this mixture show no hazardous polymerization.

### SECTION 11– Toxicological Information

Toxicological information is not available on this mixture although component numbers as listed in section 2 gives major component information.

#### Component # Information

- |    |                                   |
|----|-----------------------------------|
| 1. | LD50 31.20 mg/kg rat              |
| 2. | LD50 16.000 mg/kg rat             |
| 3. | Acute oral LD50: (Rat) 1153 mg/kg |
| 4. | LD50 4000 mg/kg oral (Rat)        |
| 5. | 5g/kg                             |
| 6. | LD50 oral 85.32 mg/kg rat         |
| 7. | Not Established                   |

# MATERIAL SAFETY DATA SHEET

## SECTION 12– Ecological Information

Ecological information not established on this mixture

## SECTION 13– Disposal practices

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains or any body of water. All disposal methods must be in compliance with all federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

## SECTION 14 – Transport information

Not a hazardous material as shipped per 49 CFR table 172.101

Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.

## SECTION 15 – Regulatory Information

US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, MSDS sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this material safety data sheet (MSDS) available to your employees and those who handle or consume the product.

Other:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, MSDS sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this material safety data sheet (MSDS) available to your employees and those who handle or consume the product.

EC Safety(S) and Risk(R) Phrases:

S2, S46, S51, S26

R36, R37, R38

NFPA:

Health:2

Fire: 0

Reactivity:0

# MATERIAL SAFETY DATA SHEET

## SECTION 16 – Other Information

All information appearing herein is based upon data obtained from the manufacturer and /or recognized technical sources of each individual component. While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTI's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product-designated herein, and does not relate to its use in combination with any other material or in any other process.

**Legend:**

**References:**

# MATERIAL SAFETY DATA SHEET

Brush & Bonnet

Date Revised: 01/01/2009

## SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: Brush & Bonnet

Product Use: Textile cleaning

### MANUFACTURER

CTI (Chemical Technologies International Inc.)

Po Box 968

Rancho Cordova, CA 95741

Phone: (916) 638-1315 Fax: (916) 638-0712

Emergency Assistance Calls: Chemtrec (800) 424-9300 (U.S.A.) 24hrs.

## SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS #
1. Polymer blend)	Mixture
2. Diphosphoric acid sodium salt	7722-88-5
3. Detergent blend	Mixture

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

## SECTION 3 – Hazards Identification

Clear liquid with light odor

### Emergency Overview

### Potential Health Effects

Routes of entry: (skin: yes) (inhalation: yes) (ingestion: yes) (eye: yes)

### Inhalation:

No irritation is anticipated with normal use. Prolonged overexposure to vapors and spray mist in poorly ventilated areas may cause irritation.

### Eye Contact:

Direct contact with product may cause irritation.

### Skin Contact:

Repeated prolonged contact may cause irritation.

### Ingestion:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

Chronic effects: Not established.

## SECTION 4 – FIRST AID MEASURES

**Inhalation:** Remove to fresh air. Contact physician if breathing is impaired.

**Eye Contact:** Immediately flush eyes with a directed stream of water for 15 minutes. Get medical attention if irritation persists.

**Skin Contact:** Wash with water. Remove and wash clothing before reuse.

**Ingestion:** Get medical attention immediately.

## SECTION 5 – Fire Fighting Measures

Flashpoint: not established

Flammable Limits: N/A

Auto-ignition Temperature: N/A

### General Hazard:

None published.

MSDS Product: Brush & Bonnet

Page 1 of 4, Revised Date: 01-01-2009

## MATERIAL SAFETY DATA SHEET

### Fire Fighting Instructions:

Use dry chemical or CO2. Use water (only to cool) nearby containers and structures exposed to fire. Direct water stream may spread fire. Keep people away from fire, isolate fire area and deny unnecessary entry.

### Fire fighting equipment:

Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NICS/MSHA APPROVED).

### Hazardous combustion products:

None known.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Small Spills: Wipe or mop up and dispose of in DOT approved waste container.

Large Spills: Contain by diking with soil or other non-combustible absorbent material, then dispose into DOT approved waste container. Comply with all applicable governmental regulations on spill reporting, handling and disposal of waste.

Contain all spills or leaks to prevent discharge into the environment. All spills or releases should be reported to the appropriate local, state and federal agencies.

## SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

The manufacturer and seller warrant that this product conforms to its standard specifications when used according to directions. As the conditions of method of its use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained herein is believed to be true but all statements and suggestions are made without any warranty, expressed or implied, regarding accuracy of the information. The hazards connected with the use of this material and the results to be obtained from the use thereof.

For use by professionals ONLY.

Avoid breathing vapors of this product.

Always ensure good ventilation of surroundings during use of this chemical

Always keep container tightly closed and properly labels.

Avoid contact with skin, eyes or clothing.

Wash thoroughly after handling

Storage temperature: store in cool dry place

Storage pressure: Atmospheric

Avoid excessive heat.

## SECTION 8 – EXPOSURE / PERSONAL PROTECTION

COMPONENT	#	EXPOSURE LIMITS		
		OSHA PEL	ACGIH TLV	OTHER LIMIT
1.		Not established	Not established	
2.			5MG/M3 8-hr TWA	
2.		Not established	Not established	

Respiratory: These precautions are not usually necessary in adequately ventilated areas. Wear NIOSH/MSHA approved respirator when ventilation is not adequate. A NIOSH /MSHA –approved air purifying respirator with an organic vapor cartridge or canister may be advisable under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure, air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

Ventilation: Always assure adequate ventilation.

Eye Protection: Wear safety goggles to protect against contact when appropriate.

Skin: Wear protective clothing to minimize skin contact. Wash skin after use. Wash contaminated clothing and dry before reuse.

Other:

One should always use chemicals with an awareness of the potential hazard of the effect on the human system. To minimize employee exposure to all chemicals, including this product, use good industrial hygiene practices.

MSDS Product: Brush & Bonnet

Page 2 of 4, Revised Date: 01-01-2009

# MATERIAL SAFETY DATA SHEET

## SECTION 9 – Physical and Chemical properties

Clear liquid with light odor  
PH 8.5 at 6% ready to use dilution.  
PH10.0 as shipped  
Vapor pressure: not available  
Vapor density: not available  
Boiling point: not available  
Freezing/Melting point: N/A  
Solubility in water: soluble  
Density:  
Flammability: not established  
Particle size: N/A  
Evaporation rate: not available  
Viscosity: N/A

## SECTION 10 – Stability and Reactivity

Chemical Stability: Stable under ambient temperature and atmospheric pressure. Stable under recommended storage and handling conditions.  
Conditions to avoid: Keep away from heat or excessive pressure.  
Incompatibility with other materials: Although the mixture has no known incompatibilities, some components of this mixture are not compatible with acids, metals, oxidizing or reducing materials.  
Hazardous decomposition products: There are no known hazardous decomposition materials of this mixture; some components of this mixture may liberate sulfur dioxide, carbon monoxide, carbon dioxide, and hydrogen sulfide.  
Hazardous polymerization: Major components of this mixture show no hazardous polymerization.

## Section 11- Toxicological Information

Toxicological information not available on this mixture.

## Section 12- Ecological Information

Ecological information not established on this mixture.

## Section 13- Disposal practices

Dispose of all waste, empty bottles and contaminated equipment in accordance with all applicable federal, state and local health and environmental regulations.

Do not dump into storm drains, sanitary sewers or any body of water. All disposal methods must be in compliance with all federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The vendor has no control over the management practices or the processes by which the party who handles or uses this material. The information presented here pertains only to the product as shipped in its intended condition and recommended usage.

## Section 14- Transport information

Not a hazardous material as shipped per 49 CFR table 172.101  
Consult 49 CFR to assure compliance with all applicable federal, state/provincial and local laws and regulations that may apply to you.

MSDS Product: Brush & Bonnet  
Page 3 of 4, Revised Date: 01-01-2009

# MATERIAL SAFETY DATA SHEET

## Section 15- Regulatory Information

### US Federal Regulations:

OSHA standards require that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, MSDS sheets, training and access to written records. We request that you, and it is your legal duty to, make all information in this material safety data sheet (MSDS) available to your employees and those who handle or consume the product.

NFPA: H = 1 F=0 R=0

EC Safety (S) and Risk (R) Phrases

S2, S26, S46

## Section 16- Other Information

All information appearing herein is based upon data obtained from the manufacturer and /or recognized technical sources of each individual component. While the information is believed to be accurate, CTI makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CTI's control and therefore users are responsible to verify this data under their own operating conditions to determine whether this product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance on information contained herein. This information relates only to the product-designated herein, and does not relate to its use in combination with any other material or in any other process.

**Legend:**

**References:**



# MATERIAL SAFETY DATA SHEET



## SECTION 1. PRODUCT/MANUFACTURER'S IDENTITY

PRODUCT NAME: **Acid Fiber Rinse** PRODUCT I.D. NUMBER (PIN): NE

H.M.I.S.

WHMISCLASS: NE  
PRODUCT USE: Fiber Rinse

DOT HAZARD CLASS: NE

COMPANY:

DOT SHIPPING NAME:NON HAZ.

**TSI**  
**821 West Broadway Road**  
**Tempe, AZ 85282**

HEALTH FLAMMABILITY REACTIVITY PERSONAL PROTECTION	1 0 0 B	HEALTH RATING 4= EXTREME 3= HIGH 2= MODERATE 1= SLIGHT 0= INSIGNIFICANT
--	------------------	--

EMERGENCY 24 HOUR PHONE LINE: 800-424-9300 DATE PREPARED: 10/01/2008  
INFORMATION LINE: 480-784-0400

A= GOGGLES B= GOGGLES AND GLOVES  
C= GOGGLES, GLOVES AND APRON

ABBREVIATION KEY: N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined

## SECTION 2. HAZARDOUS INGREDIENTS INFORMATION

HAZARDOUS CHEMICAL IDENTITY	CASE NO.	%	PEL	TLV	LD50	LC50
CITRIC ACID	77-92-9		NE	NE	NE	NE
ISOPROPANIL	67-63-0		NE	NE	NE	NE

## SECTION 3 - PHYSICAL DATA

Color: Clear/Transparent  
Odor: Country Fragrance  
Physical State: Liquid  
Solubility in Water: Completely

Boiling Point: >NA  
Freezing Point: NA  
Water/Oil Distribution: NE  
Odor Threshold: NE

Vapor Pressure: NA  
Vapor Density: NA  
Evaporation Rate: NA  
VOC Content: NE

pH: 2.25-3.00  
1% pH: NE  
Specific Gravity: 1.025

## SECTION 4 - FIRE AND EXPLOSION DATA

Flash Point and Method: NA (TCC)  
Flammable Limits: NA  
Auto Ignition Temperature: NA

Extinguishing Method: Use dry chemical powder, CO2 OR WATER  
Special Fire Fighting Procedures: USE WATER TO KEEP FIRE EXPOSED CONTAINER COOL.  
Unusual Fire and Explosion Hazards: NONE

## SECTION 5 - REACTIVITY DATA

Chemical Stability: STABLE  
Incompatibility (Materials to Avoid): Strong Alkalies

Hazardous decomposition of By-Products: Possibly oxides of carbon  
Hazardous Polymerization: WILL NOT OCCUR.

## SECTION 6 - TOXICOLOGICAL INFORMATION

Routes of Entry: INGESTION, EYES, INHALATION

Toxicologically Synergistic Products: NE  
Medical Conditions Aggravated by Exposure: NE  
Carcinogenic Effects: NE

EFFECTS OF OVEREXPOSURE (Acute and/or Chronic): NONE KNOWN

Eyes: MAY CAUSE IRRITATION.

Skin: REPEATED CONTACT MAY CAUSE IRRITATION.

Ingestion: MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, DIARRHEA.

Inhalation: PROLONGED EXPOSURE MAY CAUSE TRANSIENT RESPIRATORY TRACT IRRITATION.

## SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: NONE REQUIRED.  
Protective Gloves: RUBBER IF NEEDED TO PROTECT SKIN.  
Protective Clothing and Equipment: AS NEEDED TO PROTECT CLOTHING.

Ventilation: NA  
Eye Protection: SAFETY GOGGLES  
Work and Hygienic Practices: WASH HANDS AFTER HANDLING PRODUCT.

Storage Requirements: COOL, DRY, WELL VENTILATED AREA AWAY FROM HEAT OR FLAME.

Steps to be taken if Material is Spilled or Released: DIKE AND CONTAIN SPILL WITH ABSORBENT MATERIAL. COLLECT FOR DISPOSAL.  
Waste Disposal: ABIDE BY FEDERAL, STATE, AND LOCAL REGULATIONS.

## SECTION 8 - EMERGENCY FIRST AID PROCEDURES

Eyes: REMOVE CONTACT LENSES. FLUSH EYES FOR FIFTEEN MINUTES.

Ingestion: GIVE 2-3 LARGE GLASSES OF WATER. SEEK MEDICAL ATTENTION.

Skin: WASH SKIN WITH WATER.

Inhalation: REMOVE TO FRESH AIR.

## SECTION 9 - ADDITIONAL INFORMATION

The information contained herein has been compiled from sources considered by TSI to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific material designated herein and does not relate to the use in combination with any other material or any other process. TSI assumed no responsibility for injury to recipient or third persons for any damage to any property resulting from misuse of the controlled product.

# MATERIAL SAFETY DATA SHEET



## SECTION 1. PRODUCT/MANUFACTURER'S IDENTITY

PRODUCT NAME: **HURRICANE**

PRODUCT I.D. NUMBER (PIN): NE

H.M.I.S.

WHMISCLASS: NE

PRODUCT USE: PRE SPRAY CLEANING

DOT HAZARD CLASS: NE

COMPANY:

DOT SHIPPING NAME: NON HAZ.

TSI

821 West Broadway Road  
Tempe, AZ 85282

HEALTH	2	HEALTH RATING
FLAMMABILITY	0	4= EXTREME
REACTIVITY	1	3= HIGH
PERSONAL	B	2= MODERATE
PROTECTION		1= SLIGHT
		0= INSIGNIFICANT

EMERGENCY 24 HOUR PHONE LINE: 800-424-9300  
INFORMATION LINE: 480-784-0400

DATE PREPARED: 03/15/2009

A= GOGGLES B= GOGGLES AND GLOVES  
C= GOGGLES, GLOVES AND APRON

ABBREVIATION KEY: N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined

## SECTION 2. HAZARDOUS INGREDIENTS INFORMATION

HAZARDOUS CHEMICAL IDENTITY	CASE NO.	%	PEL	TLV	LD50	LC50
SODIUM CARBOANTE	497-19-8	15-50	NE	NE	1.86 g/kg	NA
LINEAR ALKYL BENZENE SULFONATE	68081-81-2	15-20	NE	NE	.65-1.26 g/kg	NA
SODIUM METASILICATE	6834-92-0	10-20	2mg/m3	2mg/m3	ND	ND
SODIUM TRIPHOLYPHOSATE	7758-29-4	10-20	NE	NE	NE	NE
ETHER BUTYL	111-76-2	1-8	NE	NE	NE	NE
SODIUM SULFATE	7757-82-6	5-10	NE	NE	NE	NE

Proprietary blend of surfactants

This mixture contains 4% ETHER BUTYL which is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR, Part 372

## SECTION 3 - PHYSICAL DATA

Color: WHITE GRANULAR  
Odor: FRESH  
Physical State: Liquid  
Solubility in Water: MostlyBoiling Point: 212 F  
Freezing Point: NA  
Water/Oil Distribution: NE  
Odor Threshold: NEVapor Pressure: NE  
Vapor Density: NA  
Evaporation Rate: Slow  
VOC Content: 8%pH: 12.5-13.00  
1% pH: 12.7  
Specific Gravity: 1.06

## SECTION 4 - FIRE AND EXPLOSION DATA

Extinguishing Method: Use dry chemical powder, CO2 OR WATERSpecial Fire Fighting Procedures: USE WATER TO KEEP FIRE EXPOSED CONTAINER COOL.Unusual Fire and Explosion Hazards: NONE

Flammable Limits: NA

Auto Ignition Temperature: NA

## SECTION 5 - REACTIVITY DATA

Chemical Stability: STABLE

Incompatibility (Materials to Avoid): NONE KNOWN.

Hazardous decomposition of By-Products: NONE KNOWN.

Hazardous Polymerization: WILL NOT OCCUR.

## SECTION 6 - TOXICOLOGICAL INFORMATION

Routes of Entry: INGESTION, EYES, INHALATION

Toxicologically Synergistic Products: NE  
Medical Conditions Aggravated by Exposure: NE  
Carcinogenic Effects: NE

EFFECTS OF OVEREXPOSURE (Acute and/or Chronic): NONE KNOWN

Eyes: MAY CAUSE IRRITATION.Skin: REPEATED CONTACT MAY CAUSE IRRITATION.Ingestion: MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, DIARRHEA.Inhalation: PROLONGED EXPOSURE MAY CAUSE TRANSIENT RESPIRATORY TRACT IRRITATION.

## SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: NONE REQUIRED.

Protective Gloves: RUBBER IF NEEDED TO PROTECT SKIN.

Protective Clothing and Equipment: AS NEEDED TO PROTECT CLOTHING.

Ventilation: NA

Eye Protection: SAFETY GOGGLES

Work and Hygienic Practices: WASH HANDS AFTER HANDLING PRODUCT.Storage Requirements: COOL, DRY, WELL VENTILATED AREA AWAY FROM HEAT OR FLAME.

Steps to be taken if Material is Spilled or Released: DIKE AND CONTAIN SPILL WITH ABSORBENT MATERIAL. COLLECT FOR DISPOSAL.

Waste Disposal: ABIDE BY FEDERAL, STATE, AND LOCAL REGULATIONS.

## SECTION 8 - EMERGENCY FIRST AID PROCEDURES

Eyes: REMOVE CONTACT LENSES. FLUSH EYES FOR FIFTEEN MINUTES.

Ingestion: GIVE 2-3 LARGE GLASSES OF WATER. SEEK MEDICAL ATTENTION.

Skin: WASH SKIN WITH WATER. Inhalation: REMOVE TO FRESH AIR

## SECTION 9 - ADDITIONAL INFORMATION

The information contained herein has been compiled from sources considered by TSI to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific material designated herein and does not relate to the use in combination with any other material or any other process. TSI assumed no responsibility for injury to recipient or third persons for any damage to any property resulting from misuse of the controlled product.



# Material Safety Data Sheet

N/A=Not Applicable

(Prepared According To 29 CFR 1910, 1200)

Effective Date: 1/1/08

## Product Identification

**Product Name:** Powdered De-Foam  
**Generic Name:** De-Foamer  
**Supplier's Name:** HydraMaster  
**Supplier's Address:** 11015 47th Avenue West, Mukilteo, WA 98275

**Chemical Family:** Cleaner  
**Formula:** Mixture  
**Phone Number:** (425) 775-7272  
**Emergency:** (800) 424-9300

### NPCA Hazardous Materials Identification System

Health	0
Flammability	0
Reactivity	0
Maximum Personal Protection	A

## Ingredients

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV	CARCINOGEN
Not Applic.		N/A				
Not Applic.		N/A				

## Physical Data

**Boiling Range:** 212°F  
**Vapor Pressure:** N/D  
**%Volatile:** N/D  
**Solubility in Water:** Complete  
**Physical Description:** Moist white granules with no odor.  
**Specific Gravity:** (H2O=1): N/D  
**Vapor Density:** N/D  
**pH:** 6.5 to 8.0 (1% Solution)  
**Evaporation Rate:** Not Est.

## Reactivity Data

**Stability:** Stable  
**Hazardous Polymerization:** Will Not Occur  
**Incompatibility (Materials to Avoid):** Materials incompatible with water.  
**Hazardous Decomposition Products:** None.

## Fire and Explosion Hazard Data

**Concentrate Flash Point (Method):** None  
**Propellant Flash Point (Method):** N/A  
**Flash Point (Method):** N/A  
**Explosive Limits**  
**Upper:** N/A  
**Lower:** N/A  
**Extinguishing Media:** Use extinguishing media appropriate to primary cause of fire.  
**Special Fire Fighting Procedures:** Avoid contact with fire fighting personnel. Wear complete protective clothing and self-contained breathing apparatus.  
**Unusual Fire and Explosion Hazards:** None known.

## Storage and Handling Information

**Precautions to be Taken in Handling and Storage:** Store away from incompatible materials. keep containers tightly closed.  
**Other Precautions:** Keep away from children.

## Health Hazards and First Aid

### Effect of Overexposure:

**Primary Route of Entry:**  
**Skin:** None known.  
**Eyes:** None known.  
**Inhalation:** None known.  
**Ingestion:** None known.

If any condition or discomfort persists, seek medical attention.

### First Aid Procedures

**Skin:** Wash thoroughly. Flush with water for 15 minutes. Wash contaminated clothing before reuse.  
**Eyes:** Flush thoroughly with water at least 15 minutes. If irritation remains, get immediate medical attention.  
**Inhalation:** Remove from exposure into fresh air. Consult medical personnel.  
**Ingestion:** Do not induce vomiting. Give 2 or 3 glasses water or milk if available and transport to medical facility. Never give anything by mouth to an unconscious person.

## Special Protection Information

**Respiratory Protection:** Not required.  
**Protective Gloves:** Standard rubber work gloves.  
**Other Protective Equipment:** Coveralls and protective footwear.

**Ventilation:** Local exhaust - Sufficient to maintain TLV below permissible exposure limits.  
**Mechanical:** Fans or air movers.

**Eye Protection:** Chemical safety goggles. Contact lenses should not be worn with any chemicals.

## Spill or Leak Procedures

### Steps to be Taken in Case Material is Released or Spilled:

Appropriate protective clothing must be worn by trained clean-up personnel. Dilute with large quantities of water. Dispose of in waste water treatment facilities. Check with local authorities first.

### Waste Disposal Method:

Dispose of in approved chemical disposal area or in a manner which complies with all local, state and federal regulations.

# MATERIAL SAFETY DATA SHEET



## SECTION 1. PRODUCT/MANUFACTURER'S IDENTITY

PRODUCT NAME: **Tile Pro** PRODUCT I.D. NUMBER (PIN): NE

H.M.I.S.

WHMISCLASS: NE  
PRODUCT USE: Tile CLEANING

DOT HAZARD CLASS: NE

COMPANY:

DOT SHIPPING NAME: NON HAZ.

**TSI**

**821 West Broadway Road  
Tempe, AZ 85282**

HEALTH	2	<u>HEALTH RATING</u>
FLAMMABILITY	0	4= EXTREME
REACTIVITY	1	3= HIGH
PERSONAL	B	2= MODERATE
PROTECTION		1= SLIGHT
		0= INSIGNIFICANT

EMERGENCY 24 HOUR PHONE LINE: 800-424-9300  
INFORMATION LINE: 480-784-0400

DATE PREPARED: 09/02/2008

A= GOGGLES B= GOGGLES AND GLOVES  
C= GOGGLES, GLOVES AND APRON

ABBREVIATION KEY: N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined

## SECTION 2. HAZARDOUS INGREDIENTS INFORMATION

<u>HAZARDOUS CHEMICAL IDENTITY</u>	<u>CASE NO.</u>	<u>%</u>	<u>PEL</u>	<u>TLV</u>	<u>LD50</u>	<u>LC50</u>
POTASSIUM HYDROXIDE	1310-58-3		NE	NE	NE	NE
DIETHYLENE GLYCOL ETHER	34590-94-8		NE	NE	NE	NE

## SECTION 3 - PHYSICAL DATA

Color: LIGHT AMBER	Boiling Point: >NA	Vapor Pressure: NA	pH: 12.5-13.00
Odor: Lemon	Freezing Point: NA	Vapor Density: NA	1% pH: 12.7
Physical State: Liquid	Water/Oil Distribution: NE	Evaporation Rate: NA	Specific Gravity: NA
Solubility in Water: Completely	Odor Threshold: NE	VOC Content: NE	

## SECTION 4 - FIRE AND EXPLOSION DATA

Flash Point and Method: NA (TCC)	<u>Extinguishing Method:</u> Use dry chemical powder, CO2 OR WATER
Flammable Limits: NA	<u>Special Fire Fighting Procedures:</u> USE WATER TO KEEP FIRE EXPOSED CONTAINER COOL.
Auto Ignition Temperature: NA	<u>Unusual Fire and Explosion Hazards:</u> NONE

## SECTION 5 - REACTIVITY DATA

Chemical Stability: STABLE	Hazardous decomposition of By-Products: NONE KNOWN.
Incompatibility (Materials to Avoid): NONE KNOWN.	Hazardous Polymerization: WILL NOT OCCUR.

## SECTION 6 - TOXICOLOGICAL INFORMATION

Routes of Entry: INGESTION, EYES, INHALATION	Toxicologically Synergistic Products: NE
EFFECTS OF OVEREXPOSURE (Acute and/or Chronic): NONE KNOWN	Medical Conditions Aggravated by Exposure: NE
<u>Eyes:</u> MAY CAUSE IRRITATION.	Carcinogenic Effects: NE
<u>Skin:</u> REPEATED CONTACT MAY CAUSE IRRITATION.	
<u>Ingestion:</u> MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, DIARRHEA.	
<u>Inhalation:</u> PROLONGED EXPOSURE MAY CAUSE TRANSIENT RESPIRATORY TRACT IRRITATION.	

## SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: NONE REQUIRED.	Ventilation: NA
Protective Gloves: RUBBER IF NEEDED TO PROTECT SKIN.	Eye Protection: SAFETY GOGGLES
Protective Clothing and Equipment: AS NEEDED TO PROTECT CLOTHING.	<u>Work and Hygienic Practices:</u> WASH HANDS AFTER HANDLING PRODUCT.
<u>Storage Requirements:</u> COOL, DRY, WELL VENTILATED AREA AWAY FROM HEAT OR FLAME.	
Steps to be taken if Material is Spilled or Released: DIKE AND CONTAIN SPILL WITH ABSORBENT MATERIAL. COLLECT FOR DISPOSAL.	
Waste Disposal: ABIDE BY FEDERAL, STATE, AND LOCAL REGULATIONS.	

## SECTION 8 - EMERGENCY FIRST AID PROCEDURES

Eyes: REMOVE CONTACT LENSES. FLUSH EYES FOR FIFTEEN MINUTES.	Inhalation: REMOVE TO FRESH AIR.
Ingestion: GIVE 2-3 LARGE GLASSES OF WATER. SEEK MEDICAL ATTENTION.	
Skin: WASH SKIN WITH WATER.	

## SECTION 9 - ADDITIONAL INFORMATION

The information contained herein has been compiled from sources considered by TSI to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific material designated herein and does not relate to the use in combination with any other material or any other process. TSI assumed no responsibility for injury to recipient or third persons for any damage to any property resulting from misuse of the controlled product.

# MATERIAL SAFETY DATA SHEET



## SECTION 1. PRODUCT/MANUFACTURER'S IDENTITY

PRODUCT NAME: **Enzyme Enhanced Pre-Spray** PRODUCT I.D. NUMBER (PIN): NE

H.M.I.S.

WHMISCLASS: NE

PRODUCT USE: Pre Spray Spotter & Booster

DOT HAZARD CLASS: NE

COMPANY:

DOT SHIPPING NAME: NON HAZ.

**TSI**

**821 West Broadway Road**

**Tempe, AZ 85282**

HEALTH	2	<u>HEALTH RATING</u>
FLAMMABILITY	1	4= EXTREME
REACTIVITY	1	3= HIGH
PERSONAL	B	2= MODERATE
PROTECTION		1= SLIGHT
		0= INSIGNIFICANT

EMERGENCY 24 HOUR PHONE LINE: 800-424-9300

DATE PREPARED: 10/01/2008

A= GOGGLES B= GOGGLES AND GLOVES  
C= GOGGLES, GLOVES AND APRON

INFORMATION LINE: 480-784-0400

ABBREVIATION KEY: N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined

## SECTION 2. HAZARDOUS INGREDIENTS INFORMATION

<u>HAZARDOUS CHEMICAL IDENTITY</u>	<u>CASE NO.</u>	<u>%</u>	<u>PEL</u>	<u>TLV</u>	<u>LD50</u>	<u>LC50</u>
Disodium Trioxosilicate Pentahydrate	6834-92-0		NE	NE	NE	NE
Triphosphoric Acid Pentasodium Salt	7758-29-4		NE	NE	NE	NE
Proprietary Enzyme and Surfactant Blend			NE	NE	NE	NE
ETHER BUTYL	111-76-2		NE	NE	NE	NE

This mixture contains 10% ETHER BUTYL which is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR, Part 372

## SECTION 3 - PHYSICAL DATA

Color: LIGHT AMBER

Odor: Country Fragrance

Physical State: Liquid

Solubility in Water: Completely

Boiling Point: >NA

Freezing Point: NA

Water/Oil Distribution: NE

Odor Threshold: NE

Vapor Pressure: NA

Vapor Density: NA

Evaporation Rate: NA

VOC Content: NE

pH: 12.0

1% pH: 10.2

Specific Gravity: NA

## SECTION 4 - FIRE AND EXPLOSION DATA

Flash Point and Method: NA (TCC)

Flammable Limits: NA

Auto Ignition Temperature: NA

Extinguishing Method: Use dry chemical powder, CO2 OR WATER

Special Fire Fighting Procedures: USE WATER TO KEEP FIRE EXPOSED CONTAINER COOL.

Unusual Fire and Explosion Hazards: NONE

## SECTION 5 - REACTIVITY DATA

Chemical Stability: STABLE

Incompatibility (Materials to Avoid): NONE KNOWN.

Hazardous decomposition of By-Products: NONE KNOWN.

Hazardous Polymerization: WILL NOT OCCUR.

## SECTION 6 - TOXICOLOGICAL INFORMATION

Routes of Entry: INGESTION, EYES, INHALATION

Toxicologically Synergistic Products: NE

Medical Conditions Aggravated by Exposure: NE

Carcinogenic Effects: NE

EFFECTS OF OVEREXPOSURE (Acute and/or Chronic): NONE KNOWN

Eyes: MAY CAUSE IRRITATION.

Skin: REPEATED CONTACT MAY CAUSE IRRITATION.

Ingestion: MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, DIARRHEA.

Inhalation: PROLONGED EXPOSURE MAY CAUSE TRANSIENT RESPIRATORY TRACT IRRITATION.

## SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: NONE REQUIRED.

Ventilation: NA

Protective Gloves: RUBBER IF NEEDED TO PROTECT SKIN.

Eye Protection: SAFETY GOGGLES

Protective Clothing and Equipment: AS NEEDED TO PROTECT CLOTHING.

Work and Hygienic Practices: WASH HANDS AFTER HANDLING PRODUCT.

Storage Requirements: COOL, DRY, WELL VENTILATED AREA AWAY FROM HEAT OR FLAME.

Steps to be taken if Material is Spilled or Released: DIKE AND CONTAIN SPILL WITH ABSORBENT MATERIAL. COLLECT FOR DISPOSAL.

Waste Disposal: ABIDE BY FEDERAL, STATE, AND LOCAL REGULATIONS.

## SECTION 8 - EMERGENCY FIRST AID PROCEDURES

Eyes: REMOVE CONTACT LENSES. FLUSH EYES FOR FIFTEEN MINUTES.

Ingestion: GIVE 2-3 LARGE GLASSES OF WATER. SEEK MEDICAL ATTENTION.

Skin: WASH SKIN WITH WATER.

Inhalation: REMOVE TO FRESH AIR.

## SECTION 9 - ADDITIONAL INFORMATION

The information contained herein has been compiled from sources considered by TSI to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific material designated herein and does not relate to the use in combination with any other material or any other process. TSI assumed no responsibility for injury to recipient or third persons for any damage to any property resulting from misuse of the controlled product.

# AROMATIC BOTANICAL

(FLORAL BREEZE, WILD CHERRY, JAPANESE PEAR, LEMON AID, PLUM BLOSSOM, MELON BALL,  
GRANNY APPLE, MULBERRY PATCH)

## SECTION I

### HARVARD CHEMICAL RESEARCH

3595 Zip Industrial Blvd

Atlanta, GA 30354

Date : 10/10/05

Phone:

INQUIRY- (404) 761-0657

EMERGENCY- (800) 424-9300

## SECTION II HAZARDOUS INGREDIENTS/INFORMATION

HAZARDOUS COMPONENTS	CAS#	OSHA / PEL	ACGIH / TLV	OTHER / STEL	SK
ISOPROPANOL	67-63-0	400 ppm	400 ppm	500 ppm	

## SECTION III -PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:> 212°F

Vapor Pressure (mm Hg): ND

Vapor Density (Air=1): <1

Solubility in Water: COMPLETE

Appearance and odor: Clear or Opaque/ Aromatic

Specific Gravity (H2O=1): .994

Melting Point: NA

Evaporation Rate:(Butyl Acetate=1) >2.1

## SECTION IV-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used):NONE

Extinguishing Media: Carbon dioxide, dry chemical, or alcohol foam.

Special Fire Fighting Procedures: NONE

Explosion Hazards: NONE

Flammable Limits:LEL: N/A UEL: N/A

## SECTION V-REACTIVITY DATA

Stability: Stable

Incompatibility (Materials to Avoid): Oxidizers or strong acids.

Hazardous Decomposition or Byproducts: Heat, carbon dioxide, and carbon monoxide.

Hazardous Polymerization: Will not occur.

## SECTION VI-HEALTH HAZARD DATA

Health Hazards (Acute and Chronic): NONE KNOWN

Routes of Entry, Signs of Exposure, and Symptoms of Exposure:

SKIN and EYES: Severe irritant to eyes.

INHALATION: Irritation and difficulty in breathing

INGESTION: Gastric pain and vomiting.

Medical Conditions Generally Aggravated by Exposure: Unknown

Carcinogenic: NONE

Emergency and First Aid Procedures:

SKIN & EYE CONTACT: Rinse skin with clear water. For eye contact immediately flush with clear running water for 15 minutes. Get medical attention.

INHALATION: Remove to fresh air. If breathing does not return to normal, get medical attention.

INGESTION: Immediately drink large quantities of water. Get medical attention.

## SECTION VII-PRECAUTIONS FOR SAFE HANDLING AND USE

SPILLS: Dilute with water and flush to sanitary sewer.

Handling and Storing: Keep container closed when not in use. Do not freeze. Follow label instructions.

Other Precautions: Keep this and all chemicals out of the reach of children.

## SECTION VIII-CONTROL MEASURES

Respiratory Protection (Specify Type): For exposure above established limits (see section II) use NIOSH/MSMA approved dust/mist mask.

Ventilation: Mechanical: Recommended.

Protective Gloves: None.

Eye Protection: Safety Glasses.

Other Protective Clothing or Equipment: None

## SECTION IX-ADDITIONAL INFORMATION

# ODOR DESTROYER

## SECTION I

**HARVARD CHEMICAL RESEARCH**  
**3595 ZIP INDUSTRIAL BLVD**  
**ATLANTA, GA 30321**

Date: 10/19/05

Phone:

INQUIRY-(404) 761-0657

EMERGENCY- (800) 424-9300

HEALTH	1	0=Least
FLAMMABILITY	2	1=Slight
REACTIVITY	0	2=Moderate
		3=High
		4=Extreme

## SECTION II HAZARDOUS INGREDIENTS/INFORMATION

HAZARDOUS COMPONENTS	CAS#	OSHA / PEL	ACGIH / TLV	OTHER / STEL
ISOPROPANOL	67-63-0400	400ppm	500ppm	
PETROLEUM DISTILLATE	8052-41-3	100ppm	100ppm	

## SECTION III -PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: >340 F	Appearance and odor: Clear liquid with pleasant odor.
Vapor Pressure (mm Hg): ND	Specific Gravity (H2O=1): 0.780
Vapor Density (Air=1): >1	Melting Point: NA
Solubility in Water: INSOLUBLE	Evaporation Rate:(Butyl Acetate=1) <1

## SECTION IV-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 275 F	Flammable Limits: LEL: ND	UEL: ND
Extinguishing Media: Carbon dioxide, dry chemical or alcohol foam		
Special Fire Fighting Procedures: Vapors are heavier than air care should be taken to force air into room to remove vapors.		
Explosion Hazards: Remove all sources of ignition prior to applying.		

## SECTION V-REACTIVITY DATA

Stability: Stable  
Incompatibility (Materials to Avoid): Oxidizers or strong acids.  
Hazardous Decomposition or Byproducts: Heat, carbon dioxide, and carbon monoxide.  
Hazardous Polymerization: Will not occur.

## SECTION VI-HEALTH HAZARD DATA

Health Hazards (Acute and Chronic): NONE KNOWN  
Routes of Entry, Signs of Exposure, and Symptoms of Exposure:  
SKIN and EYES: May irritate extremely sensitive individuals. Possible irritant to eyes.  
INHALATION: Vapors are harmful if inhaled.  
INGESTION: Gastric pain and vomiting.  
Medical Conditions Generally Aggravated by Exposure: Unknown  
Carcinogenics: NONE  
Emergency and First Aid Procedures:  
SKIN & EYE CONTACT: Rinse skin with clear water. If irritation results, apply skin cream.  
For eye contact immediately flush with clear running water for 15 minutes. Get medical attention.  
INHALATION: Remove to fresh air. If breathing does not return to normal, get medical attention.  
INGESTION: Immediately drink large quantities of water. Get medical attention.

## SECTION VII-PRECAUTIONS FOR SAFE HANDLING AND USE

SPILLS: Use earth type absorbent and dispose in accordance with federal and state regulations.  
Handling and Storing: Keep container closed when not in use. Do not freeze. Follow label instructions.  
Other Precautions: Keep this and all chemicals out of the reach of children.

## SECTION VIII-CONTROL MEASURES

Respiratory Protection (Specify Type): Required in confined area/ solvent type cartridges.  
Ventilation: Mechanical: General ventilation.  
Protective Gloves: Rubber gloves.  
Eye Protection: Safety glasses.  
Other Protective Clothing or Equipment: Not required.

## SECTION IX-ADDITIONAL INFORMATION

# MSDS Material Safety Data Sheet

Prochem

**PROCHEM**  
#1 FOR A REASON!

Dry Slurry

MSDS Number: S776

Revision Date: February 18, 2009

Page 1 of 4

1

## PRODUCT AND COMPANY IDENTIFICATION

### Manufacturer

PROCHEM  
Kärcher North America  
325 S. Price Road  
Chandler, AZ 85224

**Contact:** Prochem  
**Telephone Number:** 480-899-7000  
**FAX Number:** 480-786-9538  
**E-Mail:** info@prochem.com  
**Web:** www.prochem.com

**Product Name:** Dry Slurry  
**Revision Date:** February 18, 2009  
**MSDS Number:** S776

**Emergency Telephone:** (800) 535-5053 [In fotrac]

2

## HAZARDS IDENTIFICATION

**Route of Entry:** Eyes; Skin; Inhalation; Ingestion;  
**Target Organs:** Eyes; Skin;  
**Inhalation:** Minimal respiratory tract irritation may occur with exposure to a large amount of material  
**Skin Contact:** May Cause Irritation.  
**Eye Contact:** May Cause Irritation.  
**Ingestion:** Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause temporary injury.

HMIS III-ratings (scale 0-4): Health = 1, Fire = 0, Physical Hazard = 0

3

## COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients:

Cas #	Chemical Name
112345	Diethylene glycol monobutyl ether
34590948	Dipropylene glycol methyl ether
497198	Carbonic acid disodium salt
6834920	Silicic acid (H <sub>2</sub> SiO <sub>3</sub> ), disodium salt

### OSHA Regulatory Status:

This MSDS contains valuable information critical to the safe handling and proper use of this product. This MSDS should be retained and available for employees and other users of this product.



# MSDS Material Safety Data Sheet

Prochem

**PROCHEM**  
#1 FOR A REASON!

## Dry Slurry

MSDS Number: S776

Revision Date: February 18, 2009

Page 2 of 4

### 4 FIRST AID MEASURES

**Inhalation:** If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.  
**Skin Contact:** Wash with soap and water. If irritation persists consult medical personnel.  
**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Get immediate medical attention.  
**Ingestion:** If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. If injured party is conscious, give two glasses of water. Seek medical attention.

### 5 FIRE FIGHTING MEASURES

**Flash Point:** N/A  
Wear self contained breathing apparatus and other protective clothing. Use any standard agent - choose the one most appropriate for type of surrounding fire.

### 6 ACCIDENTAL RELEASE MEASURES

Keep away from drains and ground water. Keep all unnecessary personnel away. Spill area may be slippery. Sweep Up, Place In Bag and Hold For Waste Disposal. Ventilate Area and Wash Spill Site After Material Pickup is Complete. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

### 7 HANDLING AND STORAGE

**Handling Precautions:** Avoid contact with eyes, skin, or clothing; Consider normal working hygiene. Handle with care and avoid spillage on the floor (slippage). Keep away from sources of ignition; wash thoroughly after handling.  
**Storage Requirements:** Store out of reach of children; keep container closed; store in a cool well-ventilated place away from strong oxidizing or alkaline product.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Normal room ventilation is satisfactory for limited use.  
**Protective Equipment:** HMIS PP, X | Consult your supervisor for special instructions

### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Pale Blue	<b>Boiling Point:</b>	N/D
<b>Physical State:</b>	Powder	<b>Freezing/Melting Pt.:</b>	N/D
<b>Odor:</b>	Citrus	<b>Solubility:</b>	Soluble
<b>pH:</b>	10.5 - 11.5 @1% Solution	<b>Spec Grav./Density:</b>	N/A
<b>Vapor Pressure:</b>	N/D		
<b>Vapor Density:</b>	N/D		

# MSDS Material Safety Data Sheet

Prochem

**PROCHEM**  
#1 FOR A REASON!

Dry Slurry

MSDS Number: S776

Revision Date: February 18, 2009

Page 3 of 4

## 10 STABILITY AND REACTIVITY

<b>Stability:</b>	Product is stable under normal conditions.
<b>Conditions to avoid:</b>	None Known
<b>Materials to avoid (incompatibility):</b>	None Known
<b>Hazardous Decomposition products:</b>	Exposure to fire may liberate carbon dioxide, carbon monoxide, organic acids, and other unidentified thermal decomposition products from this product or its packaging.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11 TOXICOLOGICAL INFORMATION

**Route of Entry:** Eye contact; Skin absorption/contact

**Effects of Acute Overexposure to Product:**

**Eye Contact:** Causes eye irritation, redness, tearing and blurred vision

**Skin Contact:** Causes skin irritation, defatting and dermatitis

**Inhalation:** Inhalation of mist or vapor may cause temporary respiratory irritation; temporary central nervous system effects including dizziness, weakness, fatigue, nausea, and/or headache.

**Ingestion:** May cause temporary gastrointestinal irritation with nausea, vomiting and diarrhea.

None of the components in this product are listed by NTP, IARC or OSHA as a carcinogen.

## 12 ECOLOGICAL INFORMATION

Refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

## 13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

## 14 TRANSPORT INFORMATION

Refer to bill of lading or container label for DOT or other transportation hazard classification; ship in accordance with 49 CFR parts 100-185.

# MSDS Material Safety Data Sheet

Prochem

**PROCHEM**  
#1 FOR A REASON!

Dry Slurry

MSDS Number: S776

Revision Date: February 18, 2009

Page 4 of 4

## 15 REGULATORY INFORMATION

COMPONENT / (CAS) / CODES

\*Diethylene glycol monobutyl ether (112345) HAP, WHMIS 1%

\*Dipropylene glycol methyl ether (34590948) MASS, OSHAWAC, PA, TXAIR, WHMIS 1%

\*Carbonic acid disodium salt (497198), WHMIS 1%

\*Silicic acid (H<sub>2</sub>SiO<sub>3</sub>), disodium salt (6834920), WHMIS 1%

REGULATORY KEY DESCRIPTIONS

HAP = Hazardous Air Pollutants

MASS = MA Massachusetts Hazardous Substances List

OSHA WAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TXAIR = TX Air Contaminants with Health Effects Screening Level

WHMIS = Workforce Hazardous Material Information System

## 16 OTHER INFORMATION

This document is prepared in accordance with 29 CFR 1910.1200. The purpose of this section is to ensure that the hazards of all chemicals produced or imported are evaluated, and that information concerning their hazards is transmitted to employers and employees.

All information appearing herein is based upon data obtained from the raw material manufacturer and/or recognized technical sources. While the information above is believed to be true and accurate, the author makes no representations as to its accuracy or sufficiency. Conditions of use are beyond the manufacturer's control; therefore the users are responsible to verify this data under their own particular conditions, applications and regulations to determine if the product is suitable for their particular purposes. The users assume all risks of product use, handling, disposal, reliance upon, publication or use of the information contained herein. This information applies only to the product designated above and does not necessarily apply to its use in combination with other materials, products, chemical compounds, structures or processes.

Prepared by: EHS Manager

Phone Number: [480] 899-7000

END OF MSDS DOCUMENT



## 1. Chemical Product & Company Data

## **2. Hazardous Ingredients**

### 3. Hazards Identification

**Skin and eye irritant**

**NOTE:** Hazard information is based on the characteristics of the components of this mixture.

**Ingestion** - may cause abdominal discomfort, nausea, vomiting and diarrhea.

**Inhalation - may cause irritation of the respiratory tract**

**Eye contact - may cause eye irritation**

**Skin contact - prolonged contact may cause discomfort and irritation of the skin**

#### 4. First Aid

If inhaled: Remove patient to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

If swallowed: Drink promptly a large quantity of water. Do not induce vomiting. Avoid alcohol. Get medical attention.

If in eyes or on skin: Immediately flush with plenty of water. Get medical attention if irritation persists.

## Microban Hospital Spray

### 5. Fire Fighting Measures

Flammability Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		If yes, under which conditions ?	
Flashpoint 106 °F (41.6 °C)		Upper flammable limit % by volume	Lower flammable limit % by volume
Autoignition temperature		Hazardous combustion products	
Explosion data:			
Means of extinction:			

### 6. Accidental Release Measures

Wear personal protective equipment Do not allow spill to reach watercourse or sewers Contain spill with absorbent mats or booms or inert materials such as sand. Material should be readily available in the workplace. Collect and store waste materials in suitable containers for disposal ie. metal drums
--

### 7. Handling & Storage

To prevent vapor escaping to the atmosphere keep all containers closed or covered. Eyewash stations are recommended in the workplace. If eye irritation is encountered the use of a full facepiece respirator is recommended. Mechanical ventilation is recommended in enclosed workspaces. Area should be evacuated of all non essential personnel prior to application of product.
--

### 8. Exposure Controls & Personal Protection

Personal Protective Equipment				
Gloves natural rubber	Respirator NIOSH TC-23C for organic vapors or equivalent	Eye goggles		
Footwear n. ap.	Clothing coveralls or equivalent	Other n. ap.		
Exposure Guidelines				
* none established for product *				
	OSHA	ACGIH		
	TWA	STEL	TWA	STEL
2-Propanol	400 ppm	500 ppm	400 ppm	500 ppm

## Microban Hospital Spray

### 9. Physical & Chemical Properties

Physical state liquid	Odor and appearance milky white liquid, mint odor	
Odor threshold (ppm) n. av.	Vapor pressure (mm Hg) n. av.	Vapor density (Air=1) n. av.
Evaporation rate (butyl acetate = 1) n. av.	Boiling point 212 °F (100 °C)	Freezing point n. av.
pH 6.5 - 7.5	Specific gravity 0.97	Coefficient water/oil distribution n. av.
Solubility in water 100 %	Viscosity n. av.	% Volatiles (by weight) n. av.

### 10. Stability & Reactivity

Chemical stability Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If no, under which conditions ?
Incompatibility with other substances Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes , under which conditions ?
Reactivity, and under n. ap. what conditions?	
Hazardous decomposition n. ap. products	

### 11. Toxicological Information

Route of Entry			
Skin contact <input checked="" type="checkbox"/>	Skin absorption <input type="checkbox"/>	Eye contact <input checked="" type="checkbox"/>	Inhalation <input checked="" type="checkbox"/>
Ingestion <input checked="" type="checkbox"/>			
No toxicity studies have been conducted for this product			
Carcinogenicity no	Mutagenicity no	Teratogenicity no	Reproductive toxicity no
Synergistic products no	Sensitization no	Neurotoxicity no	Target organs skin and eyes

### 12. Ecological Information

n. av.
--------

## Microban Hospital Spray

### 13. Disposal Considerations

Do not dispose of product in storm or sanitary sewer systems.  
Do not allow discharge into groundwater or a watercourse.  
If product is to be disposed of, contact a licensed or registered waste disposal firm to incinerate the product.

### 14. Transport Information

Shipping name NOT REGULATED

Hazard class

UN Identification #

Not DOT regulated for truck or rail shipments up to 119 gallons.

### 15. Regulatory Information

This material safety data sheet has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Hazardous Products Act (Can.) and the Controlled Products Regulations (Can.) This product has been classified in accordance with the hazard criteria of the CPR (Can.) and the MSDS contains all the information required by the CPR (Can.).

This product is classed as a **skin and eye irritant** - 29 CFR 1910.1200 and Controlled Products Regulations (Can.)

WHMIS classification **D2B**

This product is not subject to the reporting requirements of Section 313 of Title III of Superfund Amendments and Reauthorization Act (SARA) 1986 and 40 CFR part 372

### 16. Other Information

This product is used as a commercial sanitizer and deodorizer.

For chemical emergency during transportation call INFOTRAC (US) **1-800-535-5053** (INT'L) **1-352-323-3500**

Prepared by: ProRestore Products, Coraopolis, PA / Cliff Zlotnik | Phone No: 1-412-264-8340 | Date November 12, 2009

#### abbreviations

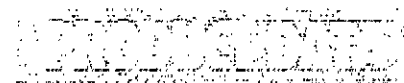
n. av. = not available n. ap. = not applicable ppm = parts per million mm Hg = millimeters of Mercury  
cs = centistokes PMCC = Pensky Martens Closed Cup TCC = Tagliabue Closed Cup COC = Cleveland Open Cup  
TWA = time weighted average STEL = short term exposure limit LD= lethal dose LC=lethal concentration



KLEENRITE

KLEENRITE

KLEENRITE



## Rust Buster

RUST STAIN REMOVER

### DESCRIPTION:

This unique product works instantly in dissolving rust from fabric. It is safe on all water safe fabric and very economical

### ADVANTAGES:

- ✓ Highly effective.
- ✓ For use on carpet, upholstery and other fabrics.
- ✓ Removes rust caused by metal file cabinets, chair legs, etc.
- ✓ Highly effective and economical.

### DIRECTIONS:

- Shake dry contents within container before adding water.
- Add warm water to the fill line (the fill line is determined by measuring 3 to 3½ inches from the top of the bottle). Replace cap. Shake until completely dissolved.
- Test fabric before use
- Apply directly onto rust spot. Allow Rust Buster to remain for 1 to 2 minutes, if necessary. Agitate, if necessary.
- Rinse area with water.

Note: If extraction equipment is not available for rinsing, blot the treated area with ammonia. This will neutralize the treated area.



Kleenrite, Inc.  
2727 Girard Bl., NE

Albuquerque, NM 87107  
Emergency: 800-535-5053

## MATERIAL SAFETY DATA SHEET

### SECTION I. IDENTIFICATION OF PRODUCT

NAME: Rust Buster

TOXICITY: 3

FIRE: 0

REACTIVITY: 0

PROTECTION: C

June 13 1996

### SECTION II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Name

CAS Number

PEL

TLV%

Ammonium Bifluoride

1341-49-7

NE

NE 50

### SECTION III. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: N/A

Specific Gravity: N/A

Vapor Pressure (mm Hg.): 0

Melting Point: ND

Vapor Density (Air = 1): N/A

Evaporation: (H<sub>2</sub>O=1): 0

Water Solubility: Complete

pH @ 77 F:

Strong Acid Appearance and Odor: Colorless Solid

### SECTION IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (TCC): None

LEL: NE

UEL: NE

Flammable Limits:

Extinguishing Media: Appropriate to fire fuel source.

Special Fire Fighting Procedures: Avoid fumes

Unusual Fire and Explosion Hazards: May emit corrosive hydrogen fluoride vapors.

### SECTION V. HEALTH HAZARD DATA

Route(s) of Entry: INHALATION? Yes EYES? Yes SKIN? Yes INGESTION? No

(Acute) Health Hazards:

Eyes: Contact with eyes may cause damage.

Skin: Contact with skin may cause damage.

Ingestion: Swallowing may cause damage to the mouth. Material is unlikely to be forced down.

Inhalation: Respiratory irritation or damage.

(Chronic) Health Hazards: None known.

Signs and Symptoms of Exposure:

Eyes: Intolerable burning

Skin: Causes burns which may not be immediately painful or evident.

Ingestion: Burning in mouth

Inhalation: Burning in nasal passages

Medical Conditions Generally Aggravated by Exposure: Preexisting disorders at the contact site.

Emergency and First Aid Procedures:

Eyes: Flush eyes with large amounts of water, lifting upper and lower eyelids. If irritation persists, obtain medical attention.

Skin: Wash off with soap and water. Remove contaminated clothing and wash before reuse. CONTACT WITH BIFLUORIDE SALTS REQUIRES SPECIAL

TREATMENT; TREAT AS FOR HF BURNS obtain medical attention. Apply a paste made of magnesia and glycerine - always keep a supply of this paste on hand.

Ingestion: Obtain immediate medical attention.

Inhalation: Remove to fresh air. If irritation persists, obtain medical attention.

### SECTION VI. TOXICITY DATA

Carcinogenicity: NTP? NO

IARC MONOGRAPHS? NO

OSHA REGULATED? NO

### SECTION VII. REACTIVITY DATA

Stability: Stable

Hazardous Polymerization Will Not Occur

Incompatibility (Materials to Avoid): Alkaline materials

Hazardous Decomposition Byproducts: Hydrofluoric acid, oxides of carbon.

### SECTION VIII. PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled:

Small Spills: Neutralize with soda ash and mop up.

Large Spills: Pump up excess (dike area) and neutralize remainder with soda ash, mop up

Disposal: Wash into waste treatment system follow Federal, State, and Local requirements. Consider neutralization.

Handling and Storing: Store in a cool, dry, well ventilated area. Keep container tightly closed when not in use.

Other Precautions: Keep out of reach of children. For industrial and institutional use only.

### SECTION IX. CONTROL MEASURES

Respiratory Protection: Not normally indicated

Ventilation: Normal indoor ventilation

Special: N/A

Local Exhaust: Not normally indicated

Mechanical (General): Not normally indicated

Other: N/A

Protective Gloves: Rubber or acid resistant plastics.

Eye Protection: Face shield.

Other Protective Clothing or Equipment: Apron, long pants and sleeves.

Work/Hygienic Practices: The recommendations described in this section are provided as general guidance. For minimizing exposure when handling this product. Because use conditions Will vary, depending upon customer applications, specific safe handling procedures should be developed by persons knowledgeable of the intended use conditions and equipment.

### SECTION X. DOT INFORMATION

Ammonium Hydrogen Difluoride, Solid, Mixture, 8, UN 1727 PG II

RQ Ammonium Bifluoride present if more than 200# are present in a single container.

### SECTION XI. MISCELLANEOUS INFORMATION

SARA 313: NA

Notice: All information, recommendations, and suggestions appearing herein concerning this product are based upon data obtained from the manufacturer and/or recognized technical sources; however, manufacturer makes no warranty, representation or guaranty as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of the product.

NA - Not Applicable

S - May Be Absorbed Through Intact Skin

ND - No Data Available

**THE DYER'S GUILD**

End User Material Safety Data Sheet™

Product Identity/Label Name:

~~BLACK MORTAR~~ Anti-Chlor

## Section 1: MANUFACTURER INFORMATION &amp; HAZARD WARNINGS

The Dyer's Guild  
16285 SW 85th Ave. Ste. 301  
Tigard, OR 97224

EMERGENCY PHONE: (800) 445-5143  
INFORMATION PHONE: (800) 445-5143  
DATE PREPARED: 1/27/97

HAZARD CODES: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe

**CAUTION!**

CONTACT WITH EYES CAN CAUSE IRRITATION.

HEALTH

FIRE

REACTIVITY

**1****0****0**

## Section 2: HEALTH HAZARD DATA

**ROUTES OF ENTRY/SIGNS & SYMPTOMS OF ACUTE EXPOSURE:**

**EYES:** Direct contact with eyes can cause irritation. **SKIN:** No adverse effects expected. Not an absorption hazard.  
**INHALATION:** No adverse effects expected. **INGESTION:** Not likely to occur under normal use conditions. DO NOT TAKE INTERNALLY.

**Chronic Effects:** None known. **Carcinogens:** None listed by NTP, IARC or OSHA. **Medical Conditions Aggravated by Exposure:** None known.

**EMERGENCY & FIRST AID PROCEDURES:**

**EYES:** Flush thoroughly with water for 15 minutes. If irritation persists, get medical attention. **SKIN:** Wash with soap and water. **INHALATION:** Remove to fresh air. **INGESTION:** Drink water or milk to dilute. If irritation or stomach upset persists, get medical attention.

## Section 3: PREVENTIVE MEASURES

**Respiratory Protection:** Normally not required.

**Ventilation:** General ventilation is satisfactory.

**Gloves:** Rubber gloves recommended for prolonged or repeated contact. **Eye Protection:** Safety glasses or chemical safety goggles recommended where splashing may occur. **Other Protective Equipment:** None required—standard work clothes.

**Work/Hygienic Practices:** THIS IS AN INDUSTRIAL CHEMICAL. FOLLOW GOOD HOUSEKEEPING AND HYGIENIC PRACTICES TO HELP PREVENT ACCIDENTAL EXPOSURE OR INGESTION.

**Handling and Storing:** No special procedures required. Follow label directions.

KEEP OUT OF THE REACH OF CHILDREN AND ANIMALS.  
N/A=Not Applicable N/E=Not Established/Evaluated T/S=Trade Secret.

Continued on Page 2

## Section 4: HAZARDOUS COMPONENTS &amp; EXPOSURE LIMITS

Hazardous Component Name	CAS #	OSHA PEL	ACGIH-TLV	Other Limit	% Wt
Anhydrous salt compound (T/S*)	N/A	N/A	N/A	N/A	N/A
Not an OSHA hazardous substance per 29 CFR 1910.1200					
* Specific chemical identity will be made available to health professionals under the Trade Secret provisions of 29 CFR 1910.1200 and State equivalents.					

## Section 5: PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	100°C	Specific Gravity:	1.01
Vapor Pressure:	N/A	Percent Volatile:	Nil.
Vapor Density (Air=1):	N/A	Evaporation Rate:	Slower than ether.
Solubility in Water:	Disperses readily at room temp.	pH:	Essentially neutral when diluted.
Appearance/Odor:	Slightly milky emulsion/Mild odor.		

## Section 6: FIRE &amp; EXPLOSION HAZARD DATA

Flash Point (Method):	None	Flammable Limits, LEL:	N/A	UEL:	N/A
Extinguishing Media:	Use media appropriate for the materials fueling the fire.				
Special Firefighting Procedures:	None				
Unusual Fire and Explosion Hazards:	None				

## Section 7: REACTIVITY DATA

Stability: Stable under normal conditions. Hazardous Polymerization: Will not occur. Conditions to Avoid: None known. Incompatibility: None known. Hazardous Decomposition Products: Normal products of combustion

## Section 8: SPILLS, DISPOSAL &amp; SPECIAL CONSIDERATIONS

Spill/Leak Procedures:	Small spill: Mop up or absorb on inert material. Large spill: Confine and collect. Place liquid and clean-up materials in suitable disposal container.
Waste Disposal:	Disposal of this material, its mixtures and any spill residues must comply with local, state and federal regulations.

The Dyers Guild is a non-profit technical organization dedicated to the knowledge and advancement of color repair services. The following manufacturers and retail outlets use this service for their material safety data sheets: Americolor Corporation, Color/Match Custom Color Dyes, Dye Co., Pro Dyes, Dyeing Colors, Carpet Cleaners' Headquarters, plus their distributors and their retail customers. One telephone number handles all your needs.

This EndUser MSDS™, which complies with all state and federal standards, is provided in good faith in the interest of effective hazard communication. It is believed to be accurate and correct, however, due to the variability of end use conditions, which are beyond the control of The Dyer's Guild, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information herein. EndUser MSDSs are prepared by MSDS Rx, (206) 712-1343, and the form is Copyright ©1995, 1996 by John H. Watson.

**THE DYER'S GUILD**

EndUser Material Safety Data Sheet™

Product Identity/Label Name:

**Carpet Dye****Section 1: MANUFACTURER INFORMATION & HAZARD WARNINGS**

The Dyer's Guild  
16285 SW 85th Ave. Ste. 301  
Tigard, OR 97224

EMERGENCY PHONE: (800) 445-5143  
INFORMATION PHONE: (800) 445-5143  
DATE PREPARED: 1/31/97

HAZARD CODES: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe

**CAUTION!**

MAY CAUSE EYE, SKIN &amp; NASAL IRRITATION.

**HEALTH****FIRE****REACTIVITY****1****0****0****Section 2: HEALTH HAZARD DATA****ROUTES OF ENTRY/SIGNS & SYMPTOMS OF ACUTE EXPOSURE:**

**EYES:** Direct contact with eyes can cause irritation. **SKIN:** Direct contact with skin may cause irritation.  
**INHALATION:** May cause irritation of the nasal membranes. **INGESTION:** Not an expected route of entry. **DO NOT**  
**INGEST** May cause gastrointestinal discomfort if swallowed

**Chronic Effects:** None known. **Carcinogens:** None listed by NTP, IARC or OSHA. **Medical Conditions**  
**Aggravated by Exposure:** None known.

**EMERGENCY & FIRST AID PROCEDURES:**

**EYES:** Flush thoroughly with water for 15 minutes. Get medical attention. **SKIN:** Flush thoroughly with water, then wash with soap and water. **INHALATION:** Move to fresh air. **INGESTION:** If fully conscious, give 2 glasses of milk. **DO NOT INDUCE VOMITING.** Get medical attention.

**Section 3: PREVENTIVE MEASURES**

**Respiratory Protection:** Normally not required because product is used in such small amounts.

**Ventilation:** General ventilation is satisfactory.

**Gloves:** Rubber. **Eye Protection:** Safety glasses without side shields. **Other Protective Equipment:** None.

**Work/Hygienic Practices:** THIS IS AN INDUSTRIAL CHEMICAL. FOLLOW GOOD HOUSEKEEPING AND HYGIENIC PRACTICES TO HELP PREVENT ACCIDENTAL EXPOSURE OR INGESTION.

**Handling and Storing:** No special procedures required.

KEEP OUT OF THE REACH OF CHILDREN AND ANIMALS.  
N/A=Not Applicable. N/E=Not Established/Evaluated. T/S=Trade Secret.

Continued on Page 2

## Carpet Dye PAGE 2 OF 2

## Section 4: HAZARDOUS COMPONENTS &amp; EXPOSURE LIMITS

Hazardous Component Name	CAS #	OSHA PEL	ACGIH-TLV	Other Limit	% VR
Not an OSHA hazardous substance per 29 CFR 1910.1200	N/A	N/A	N/A	N/A	N/A

## Section 5: PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	N/A	Specific Gravity:	1.0
Vapor Pressure:	N/A	Percent Volatile:	Nil.
Vapor Density (Air=1):	N/A	Evaporation Rate:	N/A
Solubility in Water:	Moderate.	pH:	Slightly acid (diluted).
Appearance/Color:	Various colors of powder/No odor		

## Section 6: FIRE &amp; EXPLOSION HAZARD DATA

Flash Point (Method):	None	Flammable Limits, LEL:	N/A	UEL:	N/A
Extinguishing Media:	Use media appropriate for the materials fueling the fire.				
Special Firefighting Procedures:	None.				
Unusual Fire and Explosion Hazards:	None expected.				

## Section 7: REACTIVITY DATA

Stability: Stable under normal conditions. Hazardous Polymerization: Will not occur. Conditions to Avoid: None known. Incompatibility: None known. Hazardous Decomposition Products: Normal products of combustion

## Section 8: SPILLS, DISPOSAL &amp; SPECIAL CONSIDERATIONS

Spill/Leak Procedures:	Small spill: Mop up or absorb on inert material. Large spill: Confine and collect.
Waste Disposal:	Disposal of this material, its mixtures and any spill residues must be in accordance with local, state and federal requirements.

The Dyers Guild is a non-profit technical organization dedicated to the knowledge and advancement of color repair services. The following manufacturers and retail outlets use this service for their material safety data sheets: Americolor Corporation, Color/Match Custom Color Dyes, Dye Co., Pro Dyes, Dyeing Colors, Carpet Cleaners' Headquarters, plus their distributors and their retail customers. One telephone number handles all our needs.

This EndUser MSDS™, which complies with all state and federal standards, is provided in good faith in the interest of effective hazard communication. It is believed to be accurate and correct; however, due to the variability of end use conditions, which are beyond the control of The Dyer's Guild, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information herein. EndUser MSDSs are prepared by MSDS Rx, (206) 712-1343, and the form is Copyright ©1995, 1996 by John H. Watson.