

# 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 +

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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 (NICSH/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

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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

<u>COMPONENT</u>	<u>CAS #</u>
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

	<u>EXPOSURE LIMITS</u>		
OSHA	ACGIH	OTHER	<u>HAZARD</u>

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<u>PEL</u>	<u>TLV</u>	<u>LIMIT</u>	
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

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## 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.

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## 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 (NICSH/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

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# 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.

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## 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 (NICSH/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

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# 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 (NICSH/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

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# MATERIAL SAFETY DATA SHEET

<u>COMPONENT</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

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# 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 (NCSH/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.

