

MATERIAL SAFETY DATA SHEET

Crystal Restore

Date Prepared: 05/28/2005

SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: **Crystal Restore**
Product Use: Glass & Hard Surface 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

<u>COMPONENT</u>	<u>CAS #</u>	
1. DIMETHYL CARAINOL	67-63-0	LESS THAN 4%
2. METHANE CARBOXYLIC ACID	64-19-7	LESS THAN 1%
3. ALPHA, METHY-OMEGA-HYDROXYPOLY-(OXY(METHYL1,2-ETHANEDIYL)	37286-64-9	LESS THAN 1%

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

SECTION 3 – Hazards Identification

Emergency Overview

Clear liquid with clean light alcohol smell.

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:

Direct or prolonged contact with eyes may cause mild irritation & corneal damage.

Skin Contact:

No significant irritation is expected from short-term exposure.

Ingestion:

Low ingestion hazard in normal use.

Chronic effects: Not established.

SECTION 4 – FIRST AID MEASURES

Inhalation: Remove to fresh air if breathing is difficult call a doctor.

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

Skin Contact: Wash with water.

Ingestion: Get medical attention immediately.

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SECTION 5 – Fire Fighting Measures

Flashpoint:> 63F
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. May emit oxides carbon.

Fire Fighting Instructions:

Use dry chemical, CO₂, foam, or dry chemical..

Fire fighting equipment:

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

Hazardous combustion products:

Thermal breakdown of this product may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon products.

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.

Keep away from children.
Store away from oxidizing materials
Use with adequate ventilation.
Avoid eye contact.
Avoid breathing mist.
Keep container closed.
Do not take internally.

SECTION 8 – EXPOSURE / PERSONAL PROTECTION

COMPONENT # (Refer to section 2 for component #)	EXPOSURE LIMITS			HAZARD
	OSHA PEL	ACGIH TLV	OTHER LIMIT	
1.	400ppm TWA	500ppm STEL		
2.	10 ppm TWA	15 ppm STEL		
3.	Not established			

Ventilation: Always assure adequate ventilation.

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

Skin: Wash skin at mealtime and after use

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SECTION 9 – Physical and Chemical properties

White liquid with clean scent
PH: 5-6
Vapor pressure: not available
Vapor density: not available
Boiling point: 100C
Freezing/Melting point: 0C aprox.
Solubility in water: miscible
Density: not available
Flammability: flash point <17C
Particle size: N/A
Evaporation rate: Similar to water

SECTION 10 – Stability and Reactivity

Chemical Stability: Stable
Conditions to avoid: None known.
Incompatibility with other materials: Keep away from strong oxidizers.
Hazardous decomposition products: Carbon oxides, traces of incompletely burned carbon compounds,.
Hazardous polymerization: Will not occur.

Section 11- Toxicological Information

For Components as listed in section 8:

- 1: Not available
- 2: Oral rat LD50 3310 mg/kg
3. Not available

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.

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Section 14- Transport information

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.