

MATERIAL SAFETY DATA SHEET

Heavy Duty

Date Prepared: 04/28/2005

SECTION 1 – MATERIAL AND MANUFACTURER IDENTIFICATION

Product Identifier: Heavy Duty

Product Use: Stone tile & grout cleaning

CA VOC Compliant

MANUFACTURER

CTI (Chemical Technologies International Inc.)

3765 Omec Cr.

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 (not in order of % in mixture)	CAS #
1. DISODIUM TRIOXOSILICATE PENTAHYDRATE	6834-92-0
2. PROPRIETARY SURFACTANT BLEND	N/A
3. ETHANOL, 2-BUTOXY	000111-76-2
4. P-1,8(9)-MENTHADIENE	5989-27-5
5. TRIPHOSPHORIC ACID PENTASODIUM SALT	7758-29-4

(SEE SECTION 8 FOR EXPOSURE GUIDELINES)

SECTION 3 – Hazards Identification

Emergency Overview

Amber color liquid with light floral 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.

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

SECTION 5 – Fire Fighting Measures

Flashpoint: > 50C

Flammable Limits: Not Available

Auto ignition Temperature: Not Available

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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 of sulfur and hydrogen sulfide.

Fire Fighting Instructions:

Use dry chemical or CO₂, foam or water spray

Fire fighting equipment:

Fire fighters should wear a self contained, positive pressure breathing apparatus and full protective clothing (NIOSH/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 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 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. Avoid storage with oxidizing or reducing agents, acids.

SECTION 8 – EXPOSURE / PERSONAL PROTECTION

COMPONENT #	OSHA PEL	EXPOSURE LIMITS			Other Hazard
		ACGIH TLV	NIOSH	CANADA	
(Refer to section 2 for component #)					
1.	2mg/kg	2mg/kg			
2.	Not established	Not established			
3		100 PPM			
4	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.

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SECTION 9 – Physical and Chemical properties

Amber colored liquid with light floral scent.

PH: 10 at 3% ready to use solution

PH: 12 as shipped

Vapor pressure: not available

Vapor density: not available

Boiling point: not available

Freezing/Melting point: N/A

Solubility in water: soluble

Density: Not available

Flammability: Flash point > 50C

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, although major component information is given by component number as listed in section 2.

<u>Component #</u>	<u>Information</u>
1	LD50 rat oral 20g/kg
2	N/A
3	LD50 (rat) oral 5660mg/kg
4	Not established

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

Shipping Instructions as shipped from CTI 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.

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: