

MATERIAL SAFETY DATA SHEET

CT 787-C

RECD SEP 28 2000

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: CT 787-C

UN/NA (PIN) No.: 3266

APPLICATIONS: Water Treatment Additive

EMERGENCY TELEPHONE: (815) 459-1250

SUPPLIER: Chemtool Incorporated
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2. COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT NAME:	CAS No.:	CONTENTS :	EPA RQ:	TPQ:
POTASSIUM HYDROXIDE (K(OH))	1310-58-3	1-5 %	1 000 lbs	N/A
NITROUS ACID, SODIUM SALT	7632-00-0	5-10 %	100 lbs	N/A

COMPOSITION COMMENTS:

Refer to section eight for exposure limits on ingredients.

3. HAZARDS IDENTIFICATION

Irritating to respiratory system. Inhalation of product vapor or mist may cause irritation and burns of mucous membranes in nasal passages and throat. Direct contact with skin and eyes may cause burns. For further information, please refer to section 11.

CHRONIC EFFECTS:

SENSITIZATION:

No known information.

CARCINOGENICITY:

IARC: Not listed. NTP: Not listed. OSHA: Not regulated.

REPRODUCTION/TERATOGENICITY:

No known information.

HEALTH WARNINGS:

GENERAL HEALTH HAZARDS. This chemical may cause skin/eye irritation and burns (corrosive). Inhalation of product vapor or mist may cause irritation of mucous membranes in nasal passages and throat. **INHALATION.** Spray mist can irritate airways and lungs. Acute exposure can cause irritation of the respiratory tract and mucous membranes. **SKIN CONTACT.** Corrosive. Strong local irritant which can cause corrosive burns. Repeated or prolonged exposure can cause hypersensitivity and eczema. **EYE CONTACT.** Corrosive. Splash or high vapor concentrations can damage the eyes. **INGESTION.** Can cause stomach ache and vomiting. Can cause corrosive burns on mucous membranes, throat and stomach.

ROUTE OF ENTRY:

Inhalation. Ingestion. Skin and/or eye contact.

MEDICAL SYMPTOMS:

Severe skin irritation.

4. FIRST AID MEASURES

- INHALATION:** Remove victim immediately from source of exposure. Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. Get medical attention.
- INGESTION:** DO NOT INDUCE VOMITING! Drink large amounts of water. Get medical attention immediately! Never give anything by mouth to an unconscious person.
- SKIN:** Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.
- EYES:** Immediately rinse with water. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

5. FIRE FIGHTING MEASURES

FLAMMABILITY LIMIT - LOWER(%): N/A
FLAMMABILITY LIMIT - UPPER(%): N/A

FLAMMABILITY CLASS:
15.0 Corrosive.

EXTINGUISHING MEDIA:

Product contains water and should not support combustion. Will burn if sufficiently heated to drive off water. Fire can be extinguished using: Water spray, fog or mist. Foam. Carbon dioxide (CO2).

SPECIAL FIRE FIGHTING PROCEDURES:

Use water to keep fire exposed containers cool and disperse vapors. Water spray may be used to flush spills away from exposures and dilute spills to non-flammable mixtures. Keep run-off water out of sewers and water sources. Dike for water control. Avoid water in straight hose stream; will scatter and spread fire.

UNUSUAL FIRE & EXPLOSION HAZARDS:

Pressure will increase in over heated, closed containers.

HAZARDOUS COMBUSTION PRODUCTS:

No specific hazardous combustion products noted.

PROTECTIVE MEASURES IN CASE OF FIRE:

Self-contained breathing equipment and chemical resistant clothing recommended.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Minimize skin contact. Avoid breathing vapors; wear appropriate respirator.

PRECAUTIONS TO PROTECT THE ENVIRONMENT:

Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses or extensive land areas. Assure conformity with applicable government regulations.

SPILL CLEAN-UP PROCEDURES:

Contain spill. Neutralize and absorb small amounts. Collect and return large amounts to shipping container. Rinse spill area with water. While cleaning up spills also refer to the section Protective measures.

7. HANDLING AND STORAGE**HANDLING PRECAUTIONS:**

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Do not reuse container. Keep lid closed when not in use. Do not store or mix with strong oxidizers. Eye wash station should be available at the work place.

STORAGE PRECAUTIONS:

Store separated from: Acids. Oxidizing materials. Do not freeze. Keep container closed when not in use.

STORAGE CRITERIA:

Corrosive storage.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

INGREDIENT NAME:	CAS No.:	OSHA PEL:		ACGIH TLV:		OTHER:		UNITS:
		TWA:	STEL:	TWA:	STEL:	TWA:	STEL:	
POTASSIUM HYDROXIDE (K(OH))	1310-58-3	N.E.	2	N.E.	2	N/A	N/A	mg/m ³
NITROUS ACID, SODIUM SALT	7632-00-0	15	N.E.	N.E.	N.E.	N/A	N/A	mg/m ³ total dust

PROTECTIVE EQUIPMENT:**ENGINEERING CONTROLS:**

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station.

VENTILATION: No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

RESPIRATORS: No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

PROTECTIVE GLOVES:

Chemical resistant gloves required for prolonged or repeated contact.

EYE PROTECTION:

Wear splash-proof eye goggles to prevent any possibility of eye contact.

PROTECTIVE CLOTHING:

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

HYGIENIC WORK PRACTICES:

Wash at the end of each work shift and before eating, smoking and using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE:	Clear. Liquid.
COLOR:	Light (or pale). Amber.
ODOR:	Mild (or faint).

SOLUBILITY DESCRIPTION: Soluble in water.
DENSITY/SPECIFIC GRAVITY (g/ml): 1.189 **TEMPERATURE (°F):** 61
VAPOR DENSITY (air=1): >1
EVAPORATION RATE: <1 **REFERENCE:** BuAc=1
pH-VALUE, CONC. SOLUTION: 13.1

10. STABILITY AND REACTIVITY

STABILITY: Normally stable.

CONDITIONS TO AVOID:

Avoid contact with acids and oxidizing substances. Avoid contact with reactive metals which may produce flammable hydrogen air mixtures.

HAZARDOUS POLYMERIZATION:

Will not occur.

POLYMERIZATION DESCRIPTION:

Not applicable

HAZARDOUS DECOMPOSITION PRODUCTS:

No specific hazardous decomposition products noted.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

No experimental toxicological data on the preparation as such is available.

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

There is no ecological data on the product itself.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:

Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

LABEL FOR CONVEYANCE:



PROPER SHIPPING DESCRIPTION II: Corrosive liquids, basic, inorganic, n.o.s. (contains Potassium hydroxide)

PRODUCT RQ: 1,000 pounds due to SODIUM NITRITE.

U.S. DOT:
UN/NA No.: 3266
U.S. DOT HAZARD LABEL: CORROSIVE (Black/white diam.) DOT17
U.S. DOT CLASS: Corrosive Material.
U.S. DOT PACKING GROUP: II

15. REGULATORY INFORMATION

REGULATORY STATUS OF INGREDIENTS:

NAME:	CAS No:	TSCA:	CERCLA:	SARA 302:	SARA 313:	DSL(CAN):
POTASSIUM HYDROXIDE (K(OH))	1310-58-3	Yes	Yes	N/A	N/A	Yes
NITROUS ACID, SODIUM SALT	7632-00-0	Yes	Yes	N/A	Yes	Yes

US FEDERAL REGULATIONS: REGULATORY STATUS:

This Product or its components, if a mixture, is subject to following regulations (Not meant to be all inclusive - selected regulations represented): TSCA: The ingredients of this product are on the TSCA Inventory. SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372. SARA 311 Categories: I: Immediate (Acute) Health Effects. CERCLA 302.4. Canadian WHMIS Classification.

STATE REGULATIONS: STATE REGULATORY STATUS:

This product or its components, if a mixture, is subject to following regulations (Not meant to be all inclusive - selected regulations represented): PROPOSITION 65: This product does not contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity, and for which warnings are now required.

CANADIAN REGULATIONS: LABELS FOR SUPPLY:



REGULATORY STATUS:

This Material Safety Data Sheet has been prepared in compliance with the Controlled Product Regulations.

16. OTHER INFORMATION

NFPA HAZARD RATING:

HEALTH: Temporary incapacitation, injury (2)
FLAMMABILITY: Will not burn (0).
REACTIVITY: N/A (0).
SPECIAL HAZARD: COR

NPCA HMIS HEALTH: 2 Moderate Hazard
PERS. PROTECT. INDEX: D

PREPARED BY: Stacey Lorenz

DATE: 06/14/00

DISCLAIMER:

While the information and recommendations set forth herein are believed to be accurate as of the date thereof, Chemtool Incorporated makes no warranty with respect thereto and disclaims all liability from reliance therein.