IHS0000 12453 1K-CO

MATERIAL SAFETY DATA SHEET

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SECTION I GENERAL INFORMATION

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PRODUCT NAME OR NUMBER CHEM TREAT CT-4 EMERBENCY PHONE NUMBER Chemtrec 800/424-9300

MANUFACTURER NAME/ADDRESS/PHONE Dacar Chemical Company 1007 McCartney Street Pittsburgh, PA 15220

DOT HAZARDOUS MATERIAL PROPER NAME Chromic Acid Solution

412/921-3620

8, Corrosive, UN 1755, PG II, R.Q.

CHEMICAL FAMILY Chromate and Fluoride Compounds CHEMICAL FORMULA

DOT HAZARD CLASS

in Water.

See Below

SECTION II CHEMICAL COMPONENTS

	ILY	CAS NO.	PCT %
Ammonium Bichromate Chromic Acid	N/A N/A	7789-09-5 1333-82-01	10 - 20 3 - 10
Ammonium BiFluoride	N/A	1341-49-7	3 - 10

Note: Other ingredients of the product are non-hazardous.

Note: See Attachment.

SECTION III PHYSICAL DATA

Boiling point (760 mm Hg) Vapor Pressure (@ 20°C) Vapor Dansity (Air = 1) Volatiles by volume (%)	212°F H₂O H₂O 78	Solubility in Water pH (As Received) Specific Gravity Evaporation Rate	Complete 4.1 1.2 H ₂ O
•		(Ethyl Ether = 1)	

APPEARANCE N/A

CCLOR Oranga ROGO No Odor

MATERIAL 19 A Liquid

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method) N/A

FLAMMABLE LIMITS

IGNITION TEMPERATURE

N/A

LEL: N/A UEL: N/A

EXTINOUISHING MEDIA

Water, CO2 and dry chemical media may be used in area.

SPECIAL FIRE FIGHTING PROCEDURES

Material can give off toxic gases if exposed to high heat. Wear respirator if fire occurs near material. Material itself is not combustible. but strong oxidizer.

UNUSUAL FIRE AND EXPLOSION HAZARDS High heat can cause explosion of drums due to decomposition of vapor generation. Keep drums cool and remove from fire area.

NOTE: N/A = Not Available N/E = Not Establish

information on this form is furnished solely for the purpose of compliance with OSKA for any other purposs.

Date Pages - 4
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SECTION V PHYSIOLOGICAL EFFECTS

TLY (UNITS): N/A

EFFECTS OF EXPOSURE

Eyes: Will severely irritate, may burn, can cause conjuctivitis.

skin: May cause burns and ulcers. ingenion: Toxic, can be fatal.

EMERGENCY AND FIRST AID PROCEDURES

Eyes: Immediately flush eyes for at least 15 minutes. Call a physician.

skin: Wash with copious amounts of water. Apply Iced 0.13% Zephiran Chloride solution (in

water). Soak for 45 minutes. Consult a physician.

Ingention: Get immediate medical help.

SECTION VI REACTIVITY DATA

STABLE UNSTABLE

continues to Avoid Very strong exidizing agent.

Avoid heat and ignition sources. Avoid contact with oxidizable materials, eg. olls, greases, organic materials.

HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS

HAZARDOUSFOLYERMIZATION

Chromic oxide, nitrogen, water vapor, ammonla,

May occur () Will not occur (x)

MATERIALS TO AVOID

organic materials.

Reducing agents, certain

hydrogen fluoride.

SECTION VII SPILL OR LEAK PROCEDURES

FTEPS TO BE TAXEN IN CASE MATERIAL IS RELEASED OR BPILLED

Contain spill with absorbant materials. Dispose of solid absorbant in accordance to applicable regulations.

WASTE DISPOSAL METHOD

Do not discharge to streams or contaminate underground water supplies. Disposal method must be in accordance with applicable regulations in the area.

SECTION VIII PROTECTIVE EQUIPMENT

Respiratory: Vanúlation:

For Eyes: Chemical Safety Goggles or Face Shield

For Skin: Rubber Gauntlet-Type Gloves

Other Protective Equipment: Rubber shoes, rubber apron and other suitable protective clothing, fresh

work clothes daily, wash contaminated chothing before reuse.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND SYDRAGE:

Store in cool area away from Incompatible materials.

other precautions:

Material is highly oxidizing.

SECTION X REGULATORY INFORMATION

Product contains ingredients subject to Sara Title III reporting requirements. Reportable quantities are: Chromic Acid - 10 pounds, Ammonium Bichromate - 10 pounds, Ammonium Bifluorida - 100 pounds.

MSDS/Chem Treat CT-4

Date of Latest Raview/Revision: 10/93

ATTACHMENT A

SECTION 06 HEALTH HAZARD DATA for Hexavalent Chromium Compounds including Chromic Acid and Sodium Bichromate

HEALTH HAZARD DATA

Acute Oral LD $_{50}$ greater than 50 less than 500 Mg/Kg "Rat" Acute Dermal LD $_{50}$ less than 200 Mg/Kg

PRIMARY SKIN IRRITATION INDEX IS 4.9/8.0 Eye Irritation Score is 60.8/110 LC₅₀ greater than 0.180 Mg/1

INHALATION

Inhalation of dusts or mists may cause irritation of the nasal septum and respiratory tract. Prolonged or repeated exposure may cause ulceration and perforation of the nasal septum.

SKIN CONTACT

 Contact with broken skin may lead to formation of firmly margined "Chrome Sores".

SKIN ABSORPTION

Massive overexposure to solutions could lead to electrolyte imbalance, kidney failure, and death.

EYE CONTACT

* Overexposure will cause severe irritation and potential permanent damage to the eyes. Exposure to low level concentrations may cause moderate irritation or conjunctivitis.

INGESTION

 Can cause severe tissue destruction and death as a result of electrolyte imbalance and kidney failure.

EFFECTS OF OVEREXPOSURE

* Acute of Overexposure -- Causes severe irritation to eyes. May cause deep, painful, penetrating ulcers of skin. May cause severe irritation of the respiratory tract and nasal septum and possible perforation.

CHRONIC OVEREXPOSURE

- Prolonged or repeated eye contact may cause conjunctivitis.
- Prolonged or repeated skin contact, especially with broken skin, may cause "Chrome Sores".
- Ulceration and perforation of the nasal septum may result from prolonged or repeated inhalation of sodium bichromate dusts and mists.

CANCER RISK

 There is evidence of the carcinogenicity of hexavalent chromium compounds both in humans and experimental animals.

FIRST AID PROCEDURES AND PHYSICIAN NOTES

Object is to seek medical attention immediately.

EYES

Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids apart to ensure flushing of entire eye surface. Washing eyes within one minute is essential to achieve maximum effectiveness. Seek medical attention immediately.

SKIN

Wash contaminated areas with plenty of soap and water. Remove contaminated clothing and footwear, and wash clothing before reuse. Discard footwear which cannot be decontaminated. Seek medical attention immediately.

INHALATION

Get person out of contaminated area to fresh air. If breathing has stopped, artificial respiration should be started. Oxygen may be administered, if readily available. Irrigate nasal passages and mouth with salt water. Seek medical attention immediately.

INCESTION

If swallowed, do not induce vomiting. Give large quantities of water, if available. Give several glasses of milk. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

NOTES TO PHYSICIAN

* Massive dermal overexposure to solutions of sodium bichromate can lead to electrolyte imbalance, kidney failure, and death. Death has been avoided in several cases through the use of early renal dialysis. Skin ulcers may be treated by removal from exposure. Daily cleansing and debridement, and application of antibiotic cream and dressings to prevent further exposure or contamination.