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 HOME OFFICE: 4301 DOMINION BLVD.
 GLEN ALLEN, VA. 23060 • (804) 985-0505

MATERIAL SAFETY DATA SHEET

SECTION I

TRADE NAME CHEMTREAT CL-280	EMERGENCY TELEPHONE NO. (800) 424-9300 <small>ONLY IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS</small>
CHEMICAL NAME AND SYNONYMS Solution of Nitrite, Borate Salts and Nonferrous Metal Corrosion Inhibitor	

SECTION II HAZARDOUS INGREDIENTS

PRINCIPAL HAZARDOUS COMPONENT(S)	CAS NO.	%	ORAL LD ₅₀	DERMAL LD ₅₀	TLV (Units)
Nitrous acid, sodium salt	7632-00-0	>1	120 mg/kg (Rats)	1.45 mg/L (Rats)	NE
Sodium tetraborate pentahydrate	1330-43-4	>1	3.4 g/kg (Rats)	>2.0 g/kg (Rabbits)	1 mg/m ³ ACGIH

SECTION III PHYSICAL DATA

BOILING POINT (°F)	≥212	SPECIFIC GRAVITY (H ₂ O = 1) at 20°C	~1.12
VAPOR PRESSURE (mm Hg.) at 20°C	<17.5	PERCENT VOLATILE BY WEIGHT(%)	~84
VAPOR DENSITY (AIR=1)	NE	EVAPORATION RATE	<1
SOLUBILITY IN WATER	100%	pH at 20°C	~12.4
APPEARANCE AND ODOR	Light straw-colored liquid. Mild odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used)	Not Flammable	FLAMMABLE LIMITS % by Vol.	Lel	NE	Uel	NE
EXTINGUISHING MEDIA	Water flood - keep product cool.					
SPECIAL FIRE FIGHTING PROCEDURES	Although product will not burn, high temperatures (above 900°F) can result in decomposition and the release of nitrogen oxides.					
UNUSUAL FIRE AND EXPLOSION HAZARDS	When fighting fires in the vicinity of this product, a self-contained breathing apparatus should be used due to toxic vapors.					

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SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	OSHA TLV	NE	ACGIH TLV	NE
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EFFECTS OF OVEREXPOSURE
 May irritate eyes, skin and respiratory tract. Overexposure to sodium nitrite in this product may produce cyanosis.

HEALTH EFFECTS
 This product may be irritating to the eyes, skin, and mucous membranes. Overexposure to sodium nitrite in this product may produce nausea, headache, weakness, cyanosis and low blood pressure. Persons with pre-existing diseases of the cardiovascular system or bone marrow or skin disorders or impaired pulmonary function may be more susceptible to the effects of this product.

PRIMARY ROUTE OF ENTRY
 Eye contact
 Skin contact
 Ingestion
 Inhalation of mists

EMERGENCY FIRST AID PROCEDURE
EYES: Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of entire eye surface. Seek medical attention. **SKIN:** In case of contact immediately wash with plenty of water while removing contaminated clothing. Seek medical advice. Wash and decontaminate clothing before reuse. **INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. Call a physician. **INGESTION:** If swallowed, do not induce vomiting. Give large quantities of water. Call a physician immediately. Never give anything by mouth to an unconscious person.

SECTION VI REACTIVITY DATA

STABILITY	STABLE	√	CONDITIONS TO AVOID	None Known
	UNSTABLE			
INCOMPATABILITY (Materials to Avoid)		Organics, amines, acids, reducing agents.		
HAZARDOUS DECOMPOSITION PRODUCTS		Toxic nitrogen oxides when heated above 914°F.		
HAZARDOUS POLYMERIZATION MAY OCCUR	NO	√	CONDITIONS TO AVOID	None Known

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
 Wearing appropriate protection equipment (see Section VIII), contain spill. Using an inert chemical absorbent, collect spilled material and place in a properly labeled container for disposal. Report spills as required to appropriate authorities. The RQ is 100 pounds.

WASTE DISPOSAL METHOD
 This material may be considered hazardous according to the TCLP characteristic of corrosivity. Dispose of as unlisted hazardous waste, characteristic of corrosivity, D002. Dispose of in accordance with local, state, and federal regulations.

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SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION		If fumes or vapors of this product are present, wear NIOSH approved self-contained respirator. (Specify Type) For Example: MSA Comfo II Respirator, GMC Cartridge (Yellow) TC#-23C-47, and Type F Filter TC#-21C-133.	
EYE PROTECTION	Chemical splash goggles	SKIN PROTECTION	Rubber gloves, apron, and boots
VENTILATION	Local exhaust	OTHER PROTECTION	Eye wash fountain and safety shower.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Wash thoroughly after handling. Use with adequate ventilation. Avoid breathing mists and vapors. Avoid contact with eyes, skin, and clothing. Do not ingest.
OTHER PRECAUTIONS
Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. Keep container securely closed when not in use. For industrial use only. Keep from contact with clothing and other combustible materials. Do not store near combustible materials. Store in tightly closed container.

SECTION X MISCELLANEOUS DATA

NIF - No Information Found	NA - Not Available	NE - Not Established	 <p>NFPA</p>
RQ: 100 lbs.			
<p>D.O.T. Class: Environmentally hazardous substances, liquid, n.o.s. (Sodium nitrite and Sodium tetraborate pentahydrate) Hazard Class 9 UN3082 PG III Class 9 Label</p>			
<p>This product does not contain any components listed as a carcinogen by IARC, NTP, OSHA or ACGIH.</p>			
<p>If this product contains a toxic chemical, subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372, it is listed in Section II of this Material Safety Data Sheet followed by two asterisks (**).</p>			

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Revised Edition

3/11/94

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