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MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION & PRODUCT INFORMATION

TRADE NAME: **PTR-1**
CHEMICAL NAME: Proprietary Blend of Organic Precipitating Agents
CHEMICAL FAMILY: Industrial Water Conditioner

SECTION II: COMPOSITION, INFORMATION ON INGREDIENTS

Material	CAS#	%	EXPOSURE LIMIT
Sodium Dimethyldithiocarbamate	128-04-1	<30	Not Established

Other substances not "hazardous" per OSHA communication standard may be included.
Precise mixture is proprietary

SECTION III: PHYSICAL DATA

Boiling Point (F):>.212F	Specific Gravity: 1.07
Volatile by Volume (%) Approx. <60	Evap. Rate (water = 1): Like Water
Vapor Pressure: NA	pH: 11.5-12.5
Solubility in Water: Complete	
Appearance and Odor: Red liquid, slight sulfur odor	

SECTION IV: FIRE PROTECTION INFORMATION

Flash Point (method used): >200F (Pensky-Martens)
Flammable Limits: Not Applicable, Aqueous System
Extinguishing Media: Non-flammable (aqueous solution)
Special Fire-Fighting Procedures: Use self-contained breathing apparatus and protective clothing while extinguishing a fire.
Unusual Fire and Explosion Hazards Product is nonflammable as supplied. May form flammable by-products on contact with strong acids and/or extreme heat.

National Fire Protection Association (NFPA) Rating (in fire conditions)

Toxicity: 2 Flammability: 1 Reactivity: 1 Special: None
Hazard Rating: 4=extreme 3=high 2=moderate 1=slight 0=insignificant

SECTION V: HEALTH HAZARDS INFORMATION

Exposure Limit(s): Not established

EFFECTS OF SINGLE OVEREXPOSURE:

DANGER - CORROSIVE. Exact effects unknown. May be toxic by ingestion. May cause moderate to marked irritation and possible chemical burns of the mouth, throat, esophagus, and stomach. Vapor may be irritating to the respiratory tract and mucous membranes. Alkaline material, may irritate or damage eyes.

EFFECTS OF REPEATED OVEREXPOSURE:

Exact effects unknown. Repeated skin contact may cause a cumulative dermatitis.

EMERGENCY AND FIRST AID PROCEDURES:

SWALLOWING: If person is conscious, give water or milk to dilute.

INDUCE VOMITING: Obtain immediate medical attention without delay.

SKIN: Immediately remove contaminated clothing and shoes. Wash skin with soap and water. Obtain medical attention if an irritation persists. Wash clothing before reuse. Discard contaminated leather articles such as shoes and belt.

INHALATION: Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be qualified personnel. Obtain medical attention immediately if effected person has difficulty breathing.

EYES: Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain immediate medical attention without delay, preferably from an ophthalmologist.

FOR EMERGENCY INFORMATION: 1-888-326-2020

For additional non-emergency information: 678-514-2100

SECTION VI: REACTIVITY DATA

Stable: Yes Hazardous Polymerization: Will not occur.

Conditions to Avoid: Avoid high temperature and evaporation of water. Temperatures above 100C (212F). **DANGER - Do not acidify.** Acidification releases flammable toxic gases.

Materials to Avoid: Strong oxidizing agents and acids.

Hazardous Decomposition Products: Hydrogen sulfide may be produced if heated to high temperatures. Carbon disulfide may be produces on contact with strong acids and nitrating compounds.

SECTION VII: SPILL OR LEAK PROCEDURES AND WASTE DISPOSAL

Spill or Leak Procedures:

Dike spills for recovery with absorbent material. Do not flush directly to waste treatment facility or water course.

Waste Disposal:

Landfill or incinerate. Dispose of in accordance with local, state and federal regulations.

SECTION VIII: OCCUPATIONAL PROTECTIVE EQUIPMENT

Eye: Chemical goggles or faceshield.

Respiratory: None required if good ventilation is maintained. Otherwise wear Self-contained breathing apparatus (SCBA) in high vapor concentrations.

Skin: Rubber, Nitrile (NBR), Butyl or Polyethylene gloves. Rubber apron and boots if splashing likely.

Ventilation: Provide local exhaust sufficient to keep vapors below TLV. However, if vapors are strong enough to be irritating to nose (or eyes), then the TLV is probably being exceeded and special ventilation may be required.

Other: Eye bath and safety shower.

SECTION IX: PRECAUTIONARY MEASURES

DANGER! KEEP AWAY FROM ACIDS. DO NOT ACIDIFY. Store in cool, dry place.
Avoid skin and eye contact. **DO NOT TAKE INTERNALLY.** Keep container closed when not in use. Wash thoroughly after handling. Do not inhale vapors or mists **DESTROY ANY CONTAMINATED LEATHER ARTICLES.**

SECTION X: REGULATORY INFORMATION

CERCLA: This product contains sodium dimethyldithiocarbamate (U382) and has an RQ of 3.0 lbs.

SARA TITLE III:

Sec. 313 Toxic Chemical Release: Sodium dimethyldithiocarbamate CAS # 128-04-1

Sec. 302-304: Extremely hazardous Substances: None

Sec. 311-312: Inventory Reporting - Hazard Category: Immediate health, delayed health

TSCA: Ingredients of this product are on TSCA inventory.

SECTION XI: TRANSPORTATION

DOT Classification: Corrosive, liquid, N.O.S.,(Sodium Dimethyl Dithiocarbamate),8. UN3267, ERG60.

Advice given under "Waste Disposal" assumes compliance with Federal State and Local regulations regarding the disposal of hazardous wastes.

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