



## MSDS



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### MATERIAL SAFETY DATA SHEET (June 4, 2008)

#### Section 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Thrift Drain Cleaner  
 SYNONYMS: Thrift Crystals  
 PRODUCT CODES: T-100, T-200, T-600

MANUFACTURER: JR2D, INC.  
 DIVISION:  
 ADDRESS: 3435 St. Hwy 146 S. Livingston, TX 77351

EMERGENCY PHONE: 1-800-255-3924  
 CHEMTREC PHONE: 1-800-424-9300  
 OTHER CALLS: 1-936-327-5723  
 FAX PHONE:

CHEMICAL NAME: Sodium Hydroxide  
 CHEMICAL FAMILY: Caustic Soda  
 CHEMICAL FORMULA: NaOH

PRODUCT USE: Drain Cleaning  
 PREPARED BY:

SECTION 1 NOTES:

#### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:	<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
	1310-73-2	99	99	

	<u>ppm</u>	<u>mg/m3</u>
OSHA PEL-TWA:		2
OSHA PEL STEL :		
OSHA PEL CEILING:		2

ACGIH TLV- TWA:		2
ACGIH TLV STEL:		
ACGIH TLV CEILING:		

SECTION 2  
 NOTES:

#### SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Corrosive to the entire respiratory tract. Brief contact to the eyes may cause severe damage. Causes rapid burning and severe pain to the mouth, throat, and digestive tract when swallowed. Some effects may be delayed.

ROUTES OF ENTRY: Absorbed through skin. Dermal Contact. Eye contact. Inhalation, Ingestion.

POTENTIAL HEALTH EFFECTS  
 EYES: Eye contact can result in corneal damage or blindness.

SKIN: Skin contact can produce inflammation and blistering.

INGESTION: Irritation to the gastro-intestinal tract.

INHALATION: Inhalation of dust will produce irritation to respiratory tract, characterized by burning, sneezing and coughing.

ACUTE HEALTH HAZARDS: Very hazardous in case of skin contact (corrosive, irritant, permeator), eye contact (irritant, corrosive), of ingestion, of inhalation.

CHRONIC HEALTH HAZARDS: The substance may be toxic to mucous membranes, upper respiratory tract, skin, eyes.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

CARCINOGENICITY  
OSHA: ACGIH: NTP: IARC:  
OTHER:

SECTION 3 NOTES:

#### SECTION 4: FIRST AID MEASURES

EYES: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Get medical attention immediately.

INGESTION: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as collar, tie, belt or waistband.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen. Get medical attention immediately.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 4 NOTES:

#### SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: N/A  
(% BY VOLUME) LOWER: N/A

FLASH POINT: N/A

F:

C:

METHOD USED:

AUTOIGNITION TEMPERATURE: N/A

F:

C:

NFPA HAZARD CLASSIFICATION  
HEALTH: FLAMMABILITY: None

REACTIVITY:  
OTHER:

HMIS HAZARD CLASSIFICATION  
HEALTH: FLAMMABILITY: None REACTIVITY:  
PROTECTION:

EXTINGUISHING MEDIA:

SPECIAL FIRE FIGHTING PROCEDURES:

UNUSUAL FIRE AND EXPLOSION HAZARDS: Sodium hydroxide + zinc metal dust causes ignition of the latter. This material melts at 613 degrees F. Hot molten material will react violently with water. It will react with metals Aluminum, Tin, and Zinc to produce flammable Hydrogen Gas.

HAZARDOUS DECOMPOSITION PRODUCTS:

SECTION 5 NOTES: This material is not combustible.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

ACCIDENTAL RELEASE MEASURES: Use appropriate tools to put the solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid. Wear rubber boots, rubber gloves, eye goggles, and dust mask.

SECTION 6 NOTES:

#### **SECTION 7: HANDLING AND STORAGE**

HANDLING AND STORAGE: Keep container dry. Do not breathe dust. Never add water to container. In case of insufficient ventilation, wear suitable respiratory equipment. Keep container tightly closed. Keep container in a cool, well-ventilated area.

OTHER PRECAUTIONS:

SECTION 7 NOTES:

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limits.

VENTILATION : Local exhaust.

RESPIRATORY PROTECTION: Vapor and dust respirator.

EYE PROTECTION: Splash goggles.

SKIN PROTECTION: Synthetic apron.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Rubber gloves, and boots.

WORK HYGIENIC PRACTICES:

EXPOSURE GUIDELINES:

SECTION 8 NOTES:

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: White solid.

ODOR: No odor.

PHYSICAL STATE: Solid.

pH AS SUPPLIED: 13.5 basic

pH (Other):

BOILING POINT:

F: 2530.4

C: 1388

MELTING POINT:

F: 613.4  
C: 323  
FREEZING POINT:  
F: N/A  
C:  
VAPOR PRESSURE (mmHg): N/A  
@  
F:  
C:  
VAPOR DENSITY (AIR = 1): N/A  
@  
F:  
C:  
SPECIFIC GRAVITY (H2O = 1): 2.13  
@  
F:  
C:  
EVAPORATION RATE: N/A

BASIS (=1):

SOLUBILITY IN WATER: Easily soluble in cold water.

PERCENT SOLIDS BY WEIGHT: 100

PERCENT VOLATILE: N/A  
BY WT/ BY VOL @

F:  
C:  
VOLATILE ORGANIC COMPOUNDS (VOC): N/A

WITH WATER: LBS/GAL  
WITHOUT WATER: LBS/GAL

MOLECULAR WEIGHT: N/A  
VISCOSITY:

@  
F:  
C:

SECTION 9 NOTES:

## SECTION 10: STABILITY AND REACTIVITY

### STABLE, UNSTABLE

STABILITY: The product is stable.

CONDITIONS TO AVOID (STABILITY): Incompatible materials, moisture, moist air.

INCOMPATIBILITY (MATERIAL TO AVOID): Reactive to metals. Reactive with oxidizing agents, reducing agents, acids, alkalis, moisture.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None

HAZARDOUS POLYMERIZATION: None

CONDITIONS TO AVOID (POLYMERIZATION): None.

SECTION 10 NOTES:

## SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Extremely hazardous in case of inhalation (lung, corrosive). Very hazardous in cas of skin contact (corrosive, irritant, permeator), of eye contact (corrosive), of ingestion.

SECTION 11 NOTES:

## SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: N/A

SECTION 12 NOTES:

**SECTION 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Waste must be disposed of in accordance with federal, state, and local environmental.

RCRA HAZARD CLASS:

SECTION 13 NOTES:

**SECTION 14: TRANSPORT INFORMATION**

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: Sodium Hydroxide, solid UNNA: 1823 PG: II

HAZARD CLASS: Class 8

ID NUMBER:

PACKING GROUP: PG:II

LABEL STATEMENT:

WATER TRANSPORTATION

PROPER SHIPPING NAME: Sodium Hydroxide

HAZARD CLASS: N/A

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

AIR TRANSPORTATION

PROPER SHIPPING NAME: N/A

HAZARD CLASS:

ID NUMBER:

PACKING GROUP:

LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 14 NOTES:

**SECTION 15: REGULATORY INFORMATION**

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): Inventory: Sodium Hydroxide

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Hazardous substances: Sodium Hydroxide 1000 lbs. (453.6. kg)

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT): N/A

311/312 HAZARD CATEGORIES: Sodium Hydroxide

313 REPORTABLE INGREDIENTS:

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES:

**SECTION 16: OTHER INFORMATION**

OTHER INFORMATION:

PREPARATION INFORMATION:

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