

MATERIAL SAFETY DATA SHEET

Total Solutions
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GENERAL INFORMATION NUMBER: (414) 354-6417
CHEMTREC: (800) 424-9300

REVISION DATE: June 23, 2004
DATE OF ISSUE: June 25, 2004

I - Product Identification

High Heat

PRODUCT CODE: 0616

CHEMICAL FORMULATION: Granular alkaline drain opener.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 3

FLAMMABILITY: 0

REACTIVITY: 2

HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX	OSHA	ACGIH	EPA 40 CFR:			CAS #
	%	PEL	TLV	302	355	372	
Sodium Hydroxide	> 50.0	2 mg/m ³ C	2 mg/m ³ C	Y	N	N	1310-73-2
Sodium Nitrate	> 18.0	N/E	N/E	N	N	N	7631-99-4

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - Physical Data

BOILING POINT (°F): N/D

SPECIFIC GRAVITY (WATER = 1): N/D

VAPOR PRESSURE (mm Hg): N/D

VOC CONTENT (% by weight): N/A

VAPOR DENSITY (AIR = 1): N/D

EVAPORATION RATE (WATER = 1): N/A

SOLUBILITY IN WATER: Complete

pH: 14.00

APPEARANCE AND ODOR: Yellow pellets with aluminum granules; no odor.

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): None

(TEST METHOD): Closed cup

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

EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical. Do not use water. Water will heat up mixture.

SPECIAL FIRE FIGHTING PROCEDURES: Move containers from fire if possible without risk. Cool tightly closed containers with water from the side until well after fire is out. Firefighters should be equipped with full protective gear including self-contained breathing apparatus. Runoff may be corrosive. Contain and isolate runoff for proper disposal.

UNUSUAL FIRE AND EXPLOSION HAZARD: Addition of water to this compound will generate heat and hydrogen gas. Product contains oxidizers.

V - Reactivity Data

STABILITY: Stable**INCOMPATIBILITY:** Acids, reducing agents, water. Product will generate large amounts of heat when wetted.**CONDITIONS TO AVOID:** Moisture.**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce flammable hydrogen gas upon wetting.**HAZARDOUS POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** None

VI - Health Hazard Data

ROUTES OF ENTRY **INHALATION:** X **EYE CONTACT:** X **SKIN CONTACT:** X **INGESTION:** X**INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS:** None.**EFFECTS OF OVEREXPOSURE****IF IN EYES:** Severe destruction of tissue, possibly resulting in blindness.**IF ON SKIN:** Severe irritation, severe burns and ulcerations.**IF SWALLOWED:** Danger-Poison! May be fatal if swallowed. Causes severe burns to mucous membranes, destruction of tissue, burns.**IF INHALED:** Severe irritation of respiratory tract. Pulmonary edema, laryngeal spasms.**EMERGENCY AND FIRST AID PROCEDURES****IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes, or wash with a 5% boric acid solution. Obtain medical attention and continue flushing until medical attention arrives.**IF ON SKIN:** Immediately flood skin with water. Remove and launder contaminated clothing before re-use. Wash skin thoroughly with vinegar and water.**IF SWALLOWED:** Contact physician or poison control center immediately. Do not induce vomiting. Give person large quantities of water, followed with citrus fruit juice. Never give anything by mouth to an unconscious person.**IF INHALED:** Remove person to fresh air. If not breathing, administer artificial respiration. Obtain medical attention.

VII - Spill or Leak Protection

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Ventilate area. Contain spill and remove all sources of moisture. Sweep up spilled material and place in a properly labeled closed container for re-use or disposal.**WASTE DISPOSAL METHOD:** Consult local environmental authorities.

VIII - Special Protection Information

RESPIRATORY PROTECTION: Use with adequate ventilation. Do not breathe dust or vapors. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations.**VENTILATION****LOCAL:** Recommended**MECHANICAL:** Recommended**PROTECTIVE GLOVES:** Chemical resistant.**EYE PROTECTION:** Safety goggles.**OTHER PROTECTIVE EQUIPMENT:** Emergency shower and eyewash station. Protective clothing.**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place. Keep container tightly closed when not in use.**OTHER PRECAUTIONS:** Keep out of reach of children.

IX - Transportation Information (ground transportation only)

DOT PROPER SHIPPING NAME: Corrosive solid, basic, inorganic, n.o.s. (Sodium Hydroxide)**DOT CLASS:** 8**DOT ID NUMBER:** UN3262**DOT PACKING GROUP:** II

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

REVISION DATE: June 23, 2004**Prepared by:** PMR**DATE OF ISSUE:** June 25, 2004

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