

MSDS - Material Safety Data Sheet**Product Name: Drain Cleaner & Opener, Granular****MSDS No.: 039700****Part Numbers Covered:**039700
039701**1. Basic Information:****Manufacturer:** William H. Harvey Company**Address:** 4334 South 67th Street**City, ST Zip:** Omaha, NE 68117-1019**Emergency Contact:** CHEMTREC**Emergency Telephone Number:** (800)424-9300**Contact:** Information Telephone Number**Information Telephone Number:** (800)228-9681**Last Update:** 01/17/2007**Expiration Date:****Chemical State:** ☐ Liquid ☐ Gas ☒ Solid**Chemical Type:** ☒ Pure ☐ Mixture

3	Health
0	Flammability
2	Reactivity
E	Pers. Protection

2. Ingredients:☐ Trade Secret

CAS No.	Chemical Name	% Range	EHS	IARC	SARA	OSHA	ACGIH	Other
			NTP	SUB Z	313	PEL	TLV	Limits
1310-73-2	Sodium Hydroxide	100.0				2mg/m ³ ceiling	2mg/m ³ ceiling	NI

3. Hazardous Identification:**Hazard Category:**☒ Acute☒ Chronic☐ Fire☐ Pressure☐ Reactive**Hazardous Identification Information:**

Accute Health Effects: Harmful if swallowed, inhaled, or absorbed through skin. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

Chronic Health Effects: This product has no known chronic effects. Repeated or prolong exposure to this compound is not known to aggravate medical conditions.

This product is not listed by NTP, IARC or regulated as a Carcinogen by OSHA.

4. First Aid Measures:**Route(s) of Entry:**

INGESTION, INHALATION, EYES, SKIN

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Health Hazards (Acute and Chronic):

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Signs and Symptoms:

Eyes: This material will cause eye irritation. May cause severe burns and irreversible blindness.

Skin: Redness may develop on hands and forearms. Dermatitis and skin sensitization can develop.

Skin absorption: Systemically toxic concentrations will probably not be absorbed through the skin in humans. May cause skin damage and tissue destruction. Effects may be delayed.

Inhalation: Can cause severe irritation, burns, tissue destruction, chemical pneumonia, lung damage, damage to respiratory system.

Ingestion: Can damage esophagus. Burning of the mouth and/or irritation of the stomach can develop following ingestion.

Medical Conditions Generally Aggravated by Exposure:

Prolonged breathing or repeated inhalation of product may cause decreased breathing capacity, lung damage, or damage to respiratory system.

Emergency and First Aid Procedures:

Emergency first aid: Call toll free 1-877-740-5015.

Eyes: Immediately flush with plenty of water for at least 15 minutes. If irritaiton persists, have eyes examined and treated by medical personnel.

Skin: If irritation occurs remove contaminated clothing and footwear. Wash material off the skin with plenty of soap and water. Wash clothing and footwear before reuse. Discard leather items and shoes permanently. Seek medical attention.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Ingestion: Do not induce vomiting. If possible, and if conscious, immediately give large amounts of water or milk. This may be followed by dilute vinegar or fruit juice to neutralize alkali. Get immediate medical attention.

Other Health Warnings:

NI

5. Fire Fighting Measures:

Flash Point: NA

Lower Explosive Limit: NA

Upper Explosive Limit: NA

F.P. Method: NA

Fire Extinguishing Media: DRY CHEMICAL POWDER

Special Fire Fighting Procedures:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion:

Emits toxic fumes under fire conditions.

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6. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

Evacuate non-essential personnel, eliminate ignition sources and wear protective equipment. Shut off source of leak only if it is safe to do so. Contain spill. Recover free product. Flush residue sparingly with water or use an absorbent. Avoid runoff to groundwater, surface waters or sewer. Neutralize remainder with dilute acetic acid or muriatic acid. If required, notify state and local authorities.

7. Handling and Storage:

Precautions to be Taken:

- Storage Temperatures: Store at ambient temperature
- Shelf Life: Unlimited in tightly closed container.
- Special Sensitivity: None
- Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials (see Section 10.). Reseal containers immediately after use. Store away from food and beverages.

Other Precautions:

NI

8. Exposure Controls/Personal Protection:

Ventilation Requirements:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Personal Protective Equipment:

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9. Physical and Chemical Properties:

Boiling Point: 1390° C

Melting Point: 318° C

Evaporation Rate (Butyl Acetate = 1): NA

Vapor Pressure (mm Hg.): NA

Specific Gravity (H2O = 1): 2.13000

Vapor Density (AIR = 1): NA

Solubility In Water: 42 grams/100 ml @ 0° C

Appearance and Odor: Solid white granules / no odor

Other Information: NI

10. Stability and Reactivity:

Stability:

Stable under ordinary conditions of use and storage. Very hygroscopic. Can slowly pick up moisture from air and react with carbon dioxide from air to form sodium carbonate.

Incompatibility (Materials to Avoid):

Incompatibilities:

Sodium hydroxide in contact with acids and organic halogen compounds, especially trichloroethylene, may causes violent reactions. Contact with nitromethane and other similar nitro compounds causes formation of shock-sensitive salts. Contact with metals such as aluminum, magnesium, tin, and zinc cause formation of flammable hydrogen gas. Sodium hydroxide, even in fairly dilute solution, reacts readily with various sugars to produce carbon monoxide. Precautions should be taken including monitoring the tank atmosphere for carbon monoxide to ensure safety of personnel before vessel entry.

Conditions to Avoid:

Moisture, dusting and incompatibles.

Decomposition/By Products:

Sodium oxide. Decomposition by reaction with certain metals releases flammable and explosive hydrogen gas.

Hazardous Polymerization:

WILL NOT OCCUR

11. Toxicological Information:

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RTECS Number: WB4900000

Routes of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data: Ipr-Mus LD50: 40 mg/kg

Irritation Data: Eye-Mky 1%/24h sev Skn-Rbt 500 mg/24h sev Eye-Rbt 400 ug mld

Chronic Toxic Effects: This product has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.

Acute Toxic Effects: Harmful if swallowed, inhaled, or absorbed through skin. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. Inhalation may be fatal as a result of spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

12. Ecological Information:

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. Disposal Considerations:

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information:

Proper Shipping Name: Sodium Hydroxide, solid

UN Number: 1823

Class: 8

P.G.: II

Label Code: 8

Reportable Quantity: RQ 1000(454)

15. Regulatory Information:

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) inventory List

California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances, which the state of California has found to cause cancer, birth defects or other reproductive effects.

SARA 313 Title III:

Section 302 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

16. Other Information:

Safety shower, eye wash fountain and washing facilities should be readily available.

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ABBREVIATIONS:

~ = Approximately
< = Less Than
> = Greater Than
ACGIH = American Conference of Governmental Industrial Hygienists
AIHA = American Industrial Hygiene Association
C = Degrees Celcius
Deg = Degrees
EPA = Environmental Protection Agency
F = Degrees Farenheit
HMIS = Hazardous Materials Information System
IARC = International Agency for Research on Cancer
NA = Not Applicable
NDA = No Data Available
NE = Not Established
NFPA = National Fire Protection Association
NI = Not Indicated
NIOSH = National Institute of Occupational Safety and Health
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration

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