

SAFETY DATA SHEET

Effective Date: 1/8/13
Supersedes: 9/23/11
MSDS No: P4100

Drain Cannon

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product Name: Drain Cannon

Product Code: P4521

Product Use: Drain Opener

Proper Shipping Name: UN1824, Sodium hydroxide, solution, 8, PG II (Emergency Response Guidebook Number: 154)

Manufacturer:

MSM, Inc.

Specialty Chemical Division

1101 Francisco Blvd E # D, San Rafael, California 94901 USA

Emergency Phone: (800) 535-5053

COMMENTS: To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR 1910.1200, 91/155/EEC and Canadian Hazardous Products Act.

2. HAZARDS IDENTIFICATION

Hazard Designation

"C" – Corrosive

R34: Causes burns.

Emergency Overview

Physical Appearance: Clear water-white liquid with mild odor.

Immediate Concerns: **DANGER!** Causes eye and skin burns.



Potential Health Effects

Eyes: Will cause severe corrosive effects (burns or irreversible damage) to the eyes.

Skin: Will cause severe corrosive effects (burns or irreversible damage) to the skin.

Ingestion: Will cause severe corrosive effects (burns or irreversible damage) to the mouth, throat and digestive tract.

Inhalation: Will cause severe corrosive effects (burns or irreversible damage) to the lungs, upper respiratory tract and nose.

Signs and Symptoms of Overexposure

Eyes: Severe burning of the eyes.

Skin: Severe burning of the skin.

Ingestion: Severe burning; possible nausea and/or vomiting.

Inhalation: Coughing, severe burning, tightness of chest and/or shortness of breath.

Acute Toxicity: No test data is available for acute dermal toxicity.

TOXIC; inhalation, ingestion or skin contact with material may cause severe injury or death.

Carcinogenicity: Not Listed by NTP

Not listed by IARC

Not listed by OSHA

Mutagenicity: Not Available

Reproductive Toxicity

Reproductive Effects: Not Available

Teratogenic Effects: Not Available

Medical Conditions Aggravated: None known

Sensitization: Not Available

Target Organ Statement: Contains material which can cause gastrointestinal and respiratory tract effects based on animal data.

Comments: For detailed toxicological information see Section 11.3. COMPOSITION / INFORMATION ON INGREDIENTS

	CAS#	EINECS	PCNT%
Sodium Hydroxide	1310-73-2	215-181-3	45 - 60

4. FIRST AID MEASURES

Eyes: Flush out immediately for at least 20 minutes with running water and seek medical attention. Washing eyes within one minute is essential to minimizing eye damage. Hold eyelids apart to ensure flushing of the entire surface. Seek medical attention.

Skin: Immediately wash with plenty of water for at least 15 minutes. Remove contaminated clothing and footwear and wash before reusing. Seek medical attention.

Ingestion: Never give anything to an unconscious person. If swallowed, **do not** induce vomiting. Give large quantities of water or milk. If vomiting occurs, keep airways clear. Seek medical attention.

Inhalation: ... Move person to fresh air and away from exposure. If breathing is difficult, administer oxygen and seek medical attention. Give artificial respiration if victim is not breathing.

5. FIRE FIGHTING MEASURES

Flammable Class: Nonflammable

Flame Propagation or Burning Rate of Solids: Not Applicable

General Hazard: Evacuate personnel downwind of fire to avoid inhalation of irritating and/or harmful fumes and smoke.

Extinguishing Media: Alcohol type foam, CO2 (Carbon Dioxide), Dry Chemical, Water Fog

Hazardous Combustion Products: None

Fire Fighting Procedures: This product is a nonflammable substance. Fire, however, may create hazardous decomposition and combustion products. Cool exposed containers with water spray to prevent overheating.

Fire Fighting Equipment: Firefighting personnel must use respiratory and eye protection. Use full protective equipment (Bunker Gear) and self-contained breathing apparatus (SCBA) for all indoor fires and any significant outdoor fires. SCBA may not be required for small outdoor fires easily extinguished with a portable fire extinguisher.

Sensitive to Static Discharge: None

Sensitivity to Impact: None

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6. ACCIDENTAL RELEASE MEASURES

Small Spill: Wearing the appropriate personal protective equipment designated in Section 8, move the leaking container to a containment area or rotate the container so that the opening is above the liquid level.

Large Spill: Construct temporary dikes of dirt, sand, or any appropriate readily available material to prevent spreading of the material. Wearing the appropriate personal protective equipment designated in Section 8, close or cap valves and/or block or plug hole in leaking container and transfer to another container. Contain material as described above and call the local fire or police department for immediate emergency assistance.

Environmental Precautions

Water Spill: Use appropriate containment to avoid runoff or release to sewer or waterways.

Land Spill: Use appropriate containment to avoid runoff or release to ground.

General Procedures: Remove containers of strong acids from release area. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Do not get water inside containers.

Release Notes: If spill could potentially enter any waterway, including intermittent dry creeks, contact the local authorities. If in the U.S., contact the US COAST GUARD NATIONAL RESPONSE CENTER toll free number 800-424-8802.

In case of accident or road spill notify: INFOTRAC in USA or Canada at 800-535-5053 or internationally at (International code)+1-352-323-3500

Comments: See Section 13 for disposal information and Section 15 for regulatory requirements. Large and small spills may have a broad definition depending on the user's handling system. Therefore, the spill category must be defined at the point of release by technically qualified personnel.

7. HANDLING AND STORAGE

Handling: Use appropriate personal protective equipment as specified in Section 8. Handle in a well ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.

Storage: Store in unopened containers under cool and dry conditions. Do not store with, or close to acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: If dust, vapors, or mists are generated, provide local exhaust ventilation to control airborne levels below the exposure limit.

Personal Protective Equipment

Eyes and Face: Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.

Skin: Where contact is likely, wear neoprene chemical resistant gloves, a chemical suit, rubber boots, chemical safety goggles and a face shield.

Respiratory: Always wear NIOSH approved respiratory protective equipment when vapor or mists may exceed applicable concentration limits.

Work Hygienic Practices: Facilities storing or using this material should be equipped with an eyewash facility and a safety shower. Follow good personal hygiene practices.

Comments: ACGIH's Guide to Occupational Exposure Values don't list PEL's, TLV's or OEL's for this product or its ingredients.

9. PHYSICAL AND CHEMICAL PROPERTIES

Flash Point and Method: None (Cleveland Open Cup)

Flammability Limits (LEL/UEL): Not Available

Autoignition Temperature: None

Physical State: Liquid

Odor: Characteristic

Color: Clear Water White

pH (1% Solution): 14.0

Vapor Pressure: Not Available

Vapor Density: Not Available

Boiling Point: > 100°C (214°F)

Freezing Point: 0°C (32°F)

Melting Point: Not Applicable

Solubility in Water: Complete

Evaporation Rate: Not Available

Density: 1.447 g/ml

Specific Gravity: 1.14@ 20°C/4°C

Viscosity: 50 centipoise at 25°C

Decomposition Temperature: Not Available

Coefficient Oil/Water: Not Available

10. STABILITY AND REACTIVITY

Stable: Yes

Hazardous Polymerization: No

Polymerization: Will not occur

Stability: The product is stable under normal ambient conditions of temperature and pressure.

Conditions to Avoid: Heat, temperatures above 200°C.

Hazardous Decomposition Products: None

Incompatible Materials: Strong Acids

11. TOXICOLOGICAL INFORMATION

Acute

Eyes: Not Available

DERMAL LD50: Not Available

Oral LD50: > 1,800 mg/kg (rat)

Inhalation LC50: Not Available

Eye Effects: This material is corrosive to the eyes.

Skin Effects: This material is corrosive to the skin.

Target organs: Eyes, skin, gastrointestinal tract and respiratory system

Carcinogenicity

IARC: Listed by IARC - No

NTP: Listed by NTP - No

OSHA: Listed by OSHA - No

Sensitization: Not Available

Reproductive Effects: Not Available

Teratogenic Effects: Not Available

Mutagenicity: Not Available

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12. ECOLOGICAL INFORMATION

Environmental Data: May cause adverse environmental impact if material reaches waterways.

Ecotoxicological Information: Not Available

Distribution: Not Available

Chemical Fate Information: Not Available

13. DISPOSAL CONSIDERATIONS

Disposal Method: Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations.

For Large Spills: Contain material and call local authorities for emergency assistance. In consultation with the appropriate authorities, determine the disposal method or contact EXSL/Ultra Labs, Inc.

Product Disposal: Dispose of at a supervised incineration facility or an appropriate waste disposal facility according to current applicable laws and regulations and product characteristics at time of disposal.

Empty Container: Rinse drums with water before disposal or reuse in accordance with applicable regulations.

GENERAL COMMENTS: Refer to Section 6, Accidental Release Measures for additional information.

14. TRANSPORTATION INFORMATION

Road and Rail (ADR/RID): 8 (C5) Corrosive substances

Kemler Number: 80

Hazard Class: 8 (C5) Corrosive substances

Air (ICAO/IATA)

Shipping Name: UN1824, Sodium hydroxide, solution, 8, PG II (Emergency Response Guidebook Number: 154).

Technical Name: Mixture

UN/NA Number: UN1824

Primary Hazard Class/Division: 8

Packing Group: II

Label: Corrosive

Remarks: This product can be transported using the exception: Dangerous Goods in Excepted Quantities. The Hazard class, Identification number, and Packing group listed above is for informational purposes only.

Vessel (IMO/IMDG)

Shipping Name: UN1824, Sodium hydroxide, solution, 8, PG II (Emergency Response Guidebook Number: 154).

Technical Name: Mixture

UN/NA Number: UN1824

IMDG Class/Division: 8

Packing Group: II

Label: Corrosive

Marine pollutant: No

EMS Number: F-A,S-B

Remarks: Limited quantity

15. REGULATORY INFORMATION

European Community

EEC Label Symbol and Classification



"C" - Corrosive

R34: Causes burns.

S36/39: Wear suitable protective clothing and eye/face protection.

S24/25: Avoid contact with skin or eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of soap and water.

European Community Regulatory: All intentional ingredients are listed on the European's EINECS Inventory.

16. OTHER INFORMATION

Reason for Issue: Update SDS to GHS format.

Approved by: Jon Tooper, Title: Product Stewardship Director

Prepared by: Product Stewardship Department

Information Contact: Jon Tooper

Revision Summary: Revision #: 1 This MSDS replaces the July 2, 2009 MSDS.

Manufacture Disclaimer: Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.

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