DRUMMOND™
A LAWSON BRAND

Material Safety Data Sheet

Revision Date *30-Jul-2014*

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code DN4731
Product name Torpedo
Recommended Use Sewer and Drain Maintenance

Supplier Drummond, A Lawson Brand
Lawson Products, Inc.
8770 W.Bryn Mawr Ave.- Suite 900
Chicago, IL 60631
1-866-529-7664
Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview
Harmful by inhalation, in contact with skin and if swallowed.

Aggravated Medical Conditions
None Known.

Principal Routes of Exposure
Eyes. Skin. Inhalation. Ingestion.

Potential health effects

Eyes May cause the following effects:. Severe irritation. Burning sensation. Irreversible damage to eyes. Blindness.

Skin Causes burns. Tissue destruction.

Inhalation May cause the following effects. Respiratory system damage. Breathing difficulty. Nausea. Dizziness.

Ingestion Swallowing substance may cause the following effects:. Corrosive. Pain. Nausea. Death.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Sodium hydroxide	1310-73-2	< 100

4. FIRST AID MEASURES

Eye contact Flush with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. Seek medical attention.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Seek medical attention if irritation persists.

Ingestion Do Not induce vomiting. Clean mouth with water and afterwards drink plenty of water. Dilute with liquid. Keep head below hips if vomiting occurs. Seek medical attention.

Inhalation Remove to fresh air. Provide oxygen or artificial respiration if necessary. Seek medical attention.

5. FIRE FIGHTING MEASURES

Flash point °C None
Flash point °F None
Method Not Applicable

Autoignition temperature °C Not Applicable
Autoignition temperature °F Not Applicable

Flammability Limits (% in Air)
Upper No data available
Lower No data available

Suitable extinguishing media
Water fog. Carbon dioxide (CO2). Dry chemical.

Special protective equipment for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Specific hazards
Keep product and empty container away from heat and sources of ignition.

Fire and Explosion Hazards
Contact with active metals can release flammable hydrogen gas.

Hazardous decomposition products
See Section 10.

Sensitivity to shock
No information available.

Sensitivity to static discharge
No information available.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up
Personnel should wear appropriate protective equipment. Follow all precautions for handling. Please refer to appropriate sections of MSDS for additional information. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs. Soak up excess with absorbent material. Dispose of absorbent in accordance with local, state and federal regulations.

7. HANDLING AND STORAGE

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Handling
Keep container closed when not in use. Keep out of reach of children. For industrial and institutional use only.

Storage
Keep tightly closed in a dry and cool place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Sodium hydroxide	2 mg/m^3	-	-	-

Ventilation and Environmental Controls
Sufficient ventilation in volume and in pattern, should be provided to keep air contamination below current applicable OSHA PEL or ACGIH OEL limits. Use in a well ventilated area.

Hygiene measures
General industrial hygiene practice.

Respiratory protection
If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended.

Hand Protection
Gloves are not required in normal use.

Eye protection
Use safety eyewear designed to protect against impact.

Skin and body protection
None necessary under normal conditions

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid
Color	Orange
Odor	Lemon
Odor Threshold	Not Applicable
pH	13.5
Specific Gravity	2.13
Vapor pressure	Not Applicable
Vapor density	Not Applicable
Evaporation Rate	Not Applicable
Water solubility	Partly soluble
Partition Coefficient (n-octanol/water)	Not Applicable
Boiling point/range °C	1387
Boiling point/range °F	2530
Melting point/range °C	Not Applicable
Melting point/range °F	Not Applicable
Flash point °C	None
Flash point °F	None

10. STABILITY AND REACTIVITY

Stability
Stable.

Conditions to avoid
Contact with active metals can release flammable hydrogen gas.

Incompatability
Acids. Active metals (i.e. zinc, magnesium, tin, aluminum and their alloys) .

Hazardous Decomposition Products
Carbon monoxide. Carbon dioxide. Sodium hydroxide will react with sugar to generate carbon monoxide which is hazardous and can cause death by inhalation .

Polymerization
Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Component Information

Chemical Name	LD50 (oral,rat)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat)
Sodium hydroxide 1310-73-2	-	1350 mg/kg	-

Synergistic Products None known

Potential health effects

Sensitization None known .

Chronic toxicity None known .

Mutagenic effects None known .

Teratogenic effects None known .

Reproductive toxicity None known .

Target Organ Effects None Known.

Carcinogenic effects See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Sodium hydroxide	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products
Dispose in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

DOT
UN1759 Corrosive solids, n.o.s. (Sodium hydroxide), Class 8, PG III
Exception: (Corrosive PG II not more than 1.0L or 1.0kg) Consumer Commodity ORM-D

TDG
Consumer commodity

15. REGULATORY INFORMATION

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Sodium hydroxide	Listed	Listed	Not Listed

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
Sodium hydroxide	X	X	-	X

CPR
This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

16. OTHER INFORMATION

HMIS

Health - 3
Flammability - 0
Physical Hazard - 2

Prepared By V. Shargorodsky, Regulatory Affairs Engineer

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.