

Material Safety Data Sheet

Revision Date 21-Mar-2016

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code DL4450T12
Product name Free-Flow U.S.
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
(888) 426-4851

Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview

Corrosive!. Eye, Skin and Respiratory Tract Burns may result from exposure to this product. May cause skin irritation. May cause irritation of respiratory tract.

Aggravated Medical Conditions
None Known.

Principal Routes of Exposure
Eyes. Inhalation. Skin.

Potential health effects

Eyes Corrosive to the eyes and may cause severe damage including blindness.

Skin Corrosive. Contact causes severe skin irritation and possible burns.

Inhalation Exposure to vapors may cause the following effects. Respiratory irritation. Breathing mists may cause the following effects:. Chemical burns.

Ingestion Corrosive. Irritating to mouth, throat and stomach. Can burn mouth, throat, and stomach.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Hydrochloric Acid	7647-01-0	10-30

4. FIRST AID MEASURES

Eye contact Flush with plenty of water for at least 15 minutes. Seek medical attention IMMEDIATELY.

Skin contact Remove contaminated clothing and footwear. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if burns persist.

Ingestion Give large amounts of milk or water. Preferably milk. Do Not induce vomiting. Seek medical attention if irritation persists.

Inhalation Remove to fresh air. Artificial respiration and/or oxygen may be necessary. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

Flash point °C None
Flash point °F None
Method Tag Closed Cup

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

Product is nonflammable. Use extinguishing media appropriate to surrounding fire.

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.

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.

Clean-up methods - small spill

Flush into normal drainage with copious amounts of water (if local regulations permit). Soak up excess with absorbent material. Dispose of absorbent in accordance with local, state and federal regulations.

Clean-up methods - large spill

Contain spill by diking or other methods. Neutralize with alkali before collection and disposal. Hold for disposal or reuse.

7. HANDLING AND STORAGE

Handling

Keep in a well-ventilated place. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage

Check daily for any leaks from containers, vessels, pumps, and piping. Store in a well ventilated area. Store away from highly alkaline products and oxidizing compounds. Store according to federal, state, and local guidelines for corrosive liquids. Do not store or use in containers made of aluminum, as hazardous gases may result.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Hydrochloric Acid	-	5 ppm 7 mg/m ³	-	-

Ventilation and Environmental Controls

Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits.

Hygiene measures

Remove and wash contaminated clothing before re-use.

Respiratory protection

If the exposure limits are exceeded, a NIOSH/MSHA approved respirator is recommended. Wear a NIOSH approved acid/vapor/mist respirator.

Hand Protection

Acid resistant gloves. Nitrile rubber. Neoprene gloves.

Eye protection

ANSI approved safety glasses or splash goggles with face shield are recommended.

Skin and body protection

Chemical resistant apron. Boots. Wear suitable protective clothing.

Other Protective Equipment

A safety shower and eye wash station should be available for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Color	Blue
Odor	Stinging
Odor Threshold	No information available
pH	Less Than 1
Specific Gravity	1.1
Vapor pressure	40mmHg
Vapor density	No data available
Evaporation Rate	No data available
Water solubility	Soluble in water
Partition Coefficient (n-octanol/water)	Not Applicable
Boiling point/range °C	> 100
Boiling point/range °F	> 212
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.

Incompatibility

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

Hazardous Decomposition Products

Hydrogen chloride.

Polymerization

Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Component Information

Chemical Name	LD50 (oral,rat)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat)
Hydrochloric Acid 7647-01-0	238 - 277 mg/kg	5010 mg/kg	1.68 mg/L

Synergistic Products None known.

Potential health effects

Sensitization None known.

Chronic toxicity None known.

Product code **DL4450T12** Product name **Free-Flow U.S.**

Mutagenic effects None known.
Teratogenic effects None known.
Reproductive toxicity None known.
Target Organ Effects See Section 2.
Carcinogenic effects See table below.

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Hydrochloric Acid	A4 - Not Classifiable as a Human Carcinogen	Group 1 Group 3	Not Listed	Not Listed	Listed

12. ECOLOGICAL INFORMATION

Ecotoxicity effects No information available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products
 As supplied, this product is a RCRA Hazardous Waste. Rinse empty container thoroughly with water before discarding. Dispose of all product, residues and clean-up materials in accordance with local, state, and federal regulations.

14. TRANSPORTATION INFORMATION

DOT
 UN1760 Corrosive liquids, n.o.s.(Hydrochloric acid mixture), Class 8, PGII
Exception: (Corrosive PG II not more than 1.0L or 1.0kg) Consumer Commodity ORM-D

TDG
 UN1760 CORROSIVE LIQUID, N.O.S.(Hydrochloric acid), Class 8, PG II. Consumer commodity, ORM-D.

15. REGULATORY INFORMATION

US EPA SARA 313

Chemical Name	US EPA SARA 313 Emission Reporting
Hydrochloric Acid	Listed

Chemical Name	CERCLA/SARA 302 TPQ

Hydrochloric Acid	\$500 lb, TPQ
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State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Hydrochloric Acid	Listed	Listed	Not Listed

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA	Hydrochloric Acid
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 - 0

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.