

Section 01: Chemical Product Identification

Domestic Trade Name: Lavasol ITM Export Trade Name: Lavasol ITM

MSDS

Material Safety Data Sheet December 19, 2007

Section 02: Information on Hazardous Ingredients

Hydrochloric Acid (NOS)

DOT Hazardous Classification: 8 (corrosive)

PWT Product Name: Lavasol ITM

Section 03: Hazards Identification

Acute Toxicity

Inhalation Toxicity: Exposure to Spray Will Cause Irritation to Mucous Membranes and Respiratory

System.

Skin Irritation: Causes Severe Irritation

Sensitizer: Not a Sensitizer DOT Corrosive: Not Applicable

Primary Route of Exposure: Skin Contact

Medical Conditions Aggravated by Exposure: May aggravate existing respiratory and skin ailments.

Section 04: First Aid Measures

First Aid For Ingestion: Do Not Induce Vomiting. Give Large Quantities of Milk and Water. Never Give Anything by Mouth to an Unconscious Person. Call a Physician Immediately.

First Aid Inhalation: Remove to Fresh Air.

First Aid Eye Contact: Immediately Flush Eyes with Plenty of Water For At Least 30 Minutes. Call a Physician Immediately.

First Aid Skin Contact: Wash After Exposure With Cold Water For At Least 15 Minutes. Use alkaline soap if available.

Section 05: Fire Fighting Measures

Autoignition Temp: N/A

Flammable Limits: LEL (Lower Explosive Limits) N/A

Fire Fighting Media: Use Media Appropriate to Primary Cause of Fire

Special Fire Fighting Procedures: None Known

Fire/Explosion Hazards: None Known

NFPA Hazard Codes - Health/Flammability/Reactivity; 1,0,1 HMIS Hazard Codes - Health/Flammability/Reactivity; 1,0,1

Section 06: Accidental Release Measures

Spill/Leak Clean-Up Procedures: If possible neutralize with alkaline soap.

Land Spill: Wearing recommended protective clothing and equipment, dike spill with soil, sand, or compatible commercial absorbent. Remove remaining liquid with a pump, vacuum truck, or absorb liquid in sand or commercial absorbent. Place waste in approved containers for disposal. Dispose waste according to Federal, State, and local regulations.



Water Spill: Wear protective clothing and equipment. Stop flow. Dike contaminated water and remove for disposal and/or treatment. Notify proper authorities and all downstream users if possible. Dispose of with Solid Waste according to Federal, State, and Local Regulations.

*CAUTION: Floor will be Slippery

Personal protection:

Protective clothing including chemical splash goggles, Latex, nitrile, or buytl rubber full-length gloves, rubber apron made of nitrile or buytl rubber, and rubber overshoes must be worn during spill clean-ups and deactivation of material. If this material comes into contact with the skin during clean-up operations, immediately remove all contaminated clothing and wash exposed skin areas with soap and water. See section 4, First Aid Measures, for further information.

Section 07: Handling and Storage

Precautionary Measures: Avoid Breathing Spray

Disposal Method: Dispose of with Solid Waste According to Federal, State and Local Regulations

RCRA Class: Not Regulated

Storage Conditions:

The maximum storage temperature for this material is 55°C/131°F. The minimum storage temperature for this material is 0°C/32°F. Store in a well ventilated area. Do not store this material in containers made of steel.

Section 08: Exposure Control/Personal Protection

Ventilation: Use local exhaust ventilation at the point of dust or mist evolution

Respiratory Protection: Dust masks where spraying cannot be avoided

Eye Protection: Safety glasses, splash goggles, and/or face shields (ANSI Z87.1 or approved equivalent). Skin Protection: Use latex, neoprene, or rubber gloves, boots, and apron. Remove gloves after use. Wash

hands with soap and water.

Personal Hygiene: Observe ordinary measures of personal hygiene

Section 09: Physical and Chemical Properties

Boiling Point: 100 °C

Melting/Freezing Point: Approximately 0 °C

Appearance: Clear Liquid

Density: Approximately 9 lbs./gallon Specific Gravity: 1.0 – 1.2 g/ml

Percentage Volatile: 72-79% Water - Max

Evaporation Rate: Same as Water

pH of Solution: 3 - 4.5

Odor: Pleasant

Vapor Pressure: 17 mm Hg @ 20 degrees C/68 degrees F Water

Vapor Density: <1 Water Water Solubility: Complete

Section 10: Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not Occur



Conditions to Avoid: None Known

Incompatible Materials: Strong Oxidizing or Reducing Agents

Hazardous Decomposition Products: Not a Fire or Explosions Hazard; However, in a Fire Situation, This

Product Will Emit Toxic Gases and Form Acids.

Section 11: Toxicological Information

Acute Toxicity

Mutagenicity: No data Oral Toxicity: No data

Dermal Toxicity: Not absorbed topically

Inhalation Toxicity: None known

Skin Irritation: No data Sensitizer: No data

Section 12: Ecological Information

Environmental Toxicity:

No environmental data

Section 13: Disposal

Dispose liquid and contaminated solids in accordance with Federal, State, and local regulations and permits.

Section 14: Transport Information

Domestic Data

DOT Shipping Name: Lavasol I™ (Hydrochloric acid (NOS))

DOT Hazard Class: 8

PG III

UN Number: 1789

ERG 157

Export Data

Export Shipping Name: Lavasol I™ (Hydrochloric acid (NOS))

Export Hazard Class: 8

Hazardous Ingredients: HCI, solution

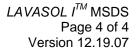
UN Number: 1789

PG III ERG 157

Section 15: Regulatory Information

SARA Section 313 Notification (40CFR 372)

This Product Does Not Contain Toxic Chemicals Subject to the Reporting Requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.





All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Section 16: Other Information

HMIS Hazard Codes – Health/Flammability/Reactivity; 1,0,1 NFPA Hazard Codes - Health/Flammability/Reactivity; 1,0,1

For Chemical Emergency Spill Leak Fire Exposure or Accident Call CHEMTREC Day or Night

DOMESTIC NORTH AMERICA 800-424-9300 INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)

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