

# Material Safety Data Sheet

(Prepared according to 29 CFR 1910,1200)

Date of Preparation: Revised: 11/11 Prepared By: DD

## Section - 1 Product and Company Identification

<b>Product Name: Liquefy</b>	Chemical Family:	De-Icer	
Generic Name: De-Icer	Formula:		
Suppliers Name: Perform Mfg			
Suppliers Address: 1624 S 45th St			
Kansas City, KS 66106			

Proper Shipping Name: : Flammable Liquids, N.O.S., 3, UN1993, PG II (Contains: Isopropanol)			
Information Phone Number: 913-722-1557	Emergency Phone No. 800-423-9861		
HMIS Codes	Reactivity: 0	Flammability:2	Health:1 Personal Protection:X

## Section - 2 Hazard Ingredients / Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH/TVL	Other Limits	% Wt.
Isopropyl Alcohol 67-63-0	400 ppm	400 ppm		< 45
Propylene Glycol 57-55-6	no info	no info		< 35

## Section III - Physical / Chemical characteristics

<b>Boiling Point Range °F:</b> 180 - 374Y	<b>Specific Gravity (H<sub>2</sub>O =1):</b> 0.960
<b>Vapor Pressure (mm Hg.):</b> 20mm/Hg @ 70°F	<b>melting Point:</b>
<b>Vapor Density (AIR = 1):</b> Heavier than Air	<b>Evaporation Rate:</b> 2.5
<b>Solubility in Water:</b> Complete	( Butyl Acetate = 1)
<b>Appearance and Odor:</b> Clear Liquid, Alcohol Odor.	<b>% Volatile:</b> 99
<b>pH:</b> 8.5 ± 0.5	

## Section IV - Fire and Explosion Hazard Data

<b>Flash Point (Method Used):</b> 75° (SETA)	Flammable limits: LEL UEL
	12 73
<b>Extinguishing Media:</b> Dry Chemical, Foam, CO2	
<b>Special Fire Fighting procedures:</b> Full Bunker Gear and Full Face SCBA	
<b>Unusual Fire and Explosion Hazards:</b> Vapor may travel a considerable distance to source of ignition and flash back..	
<b>Autoignition Temperature:</b>	

## Section V - Reactivity Data

<b>Stability:</b> Unstable	Conditions to Avoid:
Stable X	
<b>Incompatibility (Materials to avoid):</b> Active Metals, strong acids	
<b>Hazardous Decomposition or By products:</b>	Carbon Monoxide, Carbon Dioxide
<b>Hazardous Polymerization:</b> May Occur	
Will not Occur	X

**Section VI - Health Hazard Information**

**Effects of Overexposure:**

**Primary Route of Entry:**

**Skin:** Destructive - Overexposure may produce burns.

**Eyes:** Destructive - Exposure may cause burns, eye injury and blindness.

**Inhalation:** Excessive inhalation may damage respiratory tract.. Possible nausea, dizziness, and difficulty breathing.

**Ingestion:** Extremely corrosive, large quantities could cause severe pain, nausea, death.

**First Aid procedures:**

**Skin:** Immediately flush skin with plenty of water while removing contaminated clothing. Seek medical attention if irritation persists

**Eyes:** Flush with water for 15 minutes while lifting eyelids to assure complete removal. Get medical attention.

**Inhalation:** Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention.

**Ingestion:** Do not induce vomiting. If conscious, dilute stomach contents by drinking water. Call a physician immediately.

**Section VII - Spills, Leaks and Disposal Procedure**

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

Wear appropriate protective and respiratory equipment.

Prevent spills from entering sewers or any unauthorized water systems.

**Waste Disposal Method:**

Dispose in accordance with appropriate Federal, State and Local regulations.

**Section VIII - Exposure Controls / Personal Protection**

**Respiratory Protection:** NIOSH/OSHA approved respirators for materials in section 2 when ventilation is restricted

**Protective Gloves** Chemical resistant gloves.

**Other Protective Equipment:** Wear boots and impervious clothing.

**Ventilation** Sufficient ventilation in volume and pattern should be provided to keep air contamination at a minimum.

**Eye Protection:** Safety glasses or goggles.

**Section IX - Special Precautions and Comments**

**Handling Precautions:** Keep out of reach of children.

For Trained Industrial and Institutional Personnel Only.

**Storage Requirements:** Keep container tightly closed when not in use

**Comments:** Practice good hygiene after handling this material.