

LIQUID ICE CORPORATION

Material Safety Data Sheet (MSDS)

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LIQUID-ICE® CLEAR POWER LF

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

LIQUID ICE CORPORATION
500-C UNION WEST BLVD.
MATTHEWS, NC 28104
USA

CUSTOMER SERVICE: (800) 472-5568
PRODUCT INFORMATION: (704) 882-3505
CHEMTREC: (800) 424-9300

Revision Date: 3/14/2008

Trade Name: LIQUID-ICE® CLEAR POWER LF
CAS Number: MIXTURE
Synonyms: Product has no synonyms
Primary Product Use: Cleaner for metalworking
Chemical Family: Surfactants Mixture

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	C

Note: Product Ratings according to NFPA = National Fire Protection Association

2. OSHA HAZARDOUS COMPONENTS

Potassium Hydroxide, CAS 1310-58-3. Percentage < 5.0%

3. HAZARDS IDENTIFICATION

Expected Route of Entry

Eye: Yes
Skin contact: Yes
Inhalation: No
Oral: No
Skin Absorption: Yes

Health Effects of Overexposure:

May Cause irritation to Skin and Eyes. Harmful if swallowed.

Known Effects on Other Illnesses:

No known effects on other illnesses for this product

Carcinogenic Listings

IARC: No
NTP: No
OSHA: No
Other: No

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4. FIRST AID MEASURES

Eye:	Immediately flush eyes with running water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if redness or irritation occurs.
Skin:	Remove contaminated clothing. Wash affected area thoroughly with soap and water for 15 minutes. Get medical attention if irritation or other ill effects develop or persist.
Inhalation:	Remove victim to fresh air. Give artificial respiration if breathing has stopped. Get immediate medical attention. Do not give fluids if victim is unconscious.
Oral:	If victim is conscious, give large amounts of water or milk. Get medical attention. Never give anything by mouth to an unconscious person.
Comments:	Treat according to person's condition and specifics of exposure.

5. FIRE FIGHTING MEASURES

Flash Point:	Not applicable.
Auto ignition Temperature:	Not applicable
Flammability Limits in Air:	Not applicable.
Extinguishing Media:	Water spray jet, foam, carbon dioxide, dry powder
Fire Fighting Measures:	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
Unusual Fire Hazards:	Not applicable. Product is non flammable.

Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Oxides of Carbon and Nitrogen

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Wear proper protective equipment. Contain spill. Spills should be collected as a liquid or absorbed on a suitable absorbent and placed in proper container for disposal. Do not discharge into storm drains or the aquatic environment.

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7. HANDLING AND STORAGE

Avoid skin and eye contact. Store in original containers. Keep containers closed.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection

If airborne concentrations pose a health hazard, become irritating or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29 CFR 1910.134

Engineering Controls

Local Ventilation: Recommended.
General Ventilation: Recommended.

Personal Protective Equipment for Routine Handling

Eyes: Use safety glasses or chemical worker's goggles.
Skin: Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Butyl rubber, PVC or Neoprene protective gloves are recommended.
Other: Protective clothing to minimize skin contact should be worn, as well as chemically resistant safety shoes. Wash contaminated clothing with soap and water, and dry before reuse. Safety showers and eyewash stations should be provided in all areas where the material is handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid
Color: Clear to slightly yellow
Odor: Mild chemical odor
Specific Gravity @ 25°C: 1.045
Viscosity: 7 cPs at 25°C
Freezing Point: 0°C (32°F)
Boiling Point: > 100°C (212°F)
Vapor Pressure @ 25°C: As water
Vapor Density: Not determined
Solubility in Water: Soluble
pH: 13.4 (10% in water @ 20°C)
Volatile Content: Not applicable

NOTE: The above properties are typical and should not be construed as specifications

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10. STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Highly acidic conditions, strong oxidizers.
Thermal Decomposition:	> 100° C (> 212° F)

11. TOXICOLOGICAL INFORMATION

Product Information

Acute Oral Toxicity:	Unknown
Acute Inhalation Toxicity:	Not determined
Acute Dermal Toxicity:	Not determined
Skin Irritation:	Not determined
Eye Irritation:	Not determined

12. ECOLOGICAL INFORMATION

Product Information

Biodegradation:	Not determined
Fish Toxicity:	Not determined
Bacteria Toxicity:	Not determined
Dissolved Organic Carbon (DOC):	Not determined
Chemical Oxygen Demand (COD):	Not determined

13. DISPOSAL CONSIDERATIONS

Waste Disposal Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

RCRA Hazard Class (40 CFR 261)

Product is not a hazardous waste as sold. RCRA number Not Applicable

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14. TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Not subject to DOT.

Ocean Shipment (IMDG)

IMDG code not determined

Air Shipment (IATA)

IATA regulations applicability not determined.

15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: All the components of this product are listed on the TSCA inventory of chemical substances.

EPA SARA Title 111 Chemical Listings

Section 302 Extremely Hazardous Substances: None.

Section 304 CERCLA Hazardous Substances: None.

Section 312 Hazard Class:

Acute: Yes
Chronic: No
Fire: No
Pressure: No
Reactive: No

Section 313 Toxic Chemicals: None present or none present in regulated quantities.

Clean Water Act: Contains no known priority pollutants at concentrations greater than 0.1%

Volatile Organic Compounds (VOC): Not applicable

FDA: This product is not registered with the FDA

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16. OTHER INFORMATION

Other precautions: None known

State Regulatory Information

Pennsylvania: Non hazardous components being withheld as a trade secret
Massachusetts: Any component of this product which is a hazardous chemical as listed in the Massachusetts Substance list is shown above in Section 2 of this MSDS. Non hazardous components are withheld as trade secret information.

Label Information: ATTENTION!

UPON EVALUATION, IT HAS BEEN DETERMINED THAT THIS PRODUCT IS NOT SUBJECT TO THE LABELING REQUIREMENTS OF OSHA REGULATION 29 CFR 1910.1200

AVOID SKIN AND EYE CONTACT, INGESTION AND SPRAY INHALATION. WASHING HANDS AFTER HANDLING IS RECOMMENDED.

Prepared by: Liquid Ice Corporation

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