



Safety Data Sheet (SDS)

1. IDENTIFICATION

Product Identifier

Product Name: Liquid-Ice® VP

Other Means of Identification:

SDS No.: VP-001

Recommended use of the chemical and restrictions on use:

Recommended use: Metalworking compound

Details of the supplier of the Safety Data Sheet

LIQUID ICE CORPORATION
500C UNION WEST BLVD.
MATTHEWS, NC 28104 USA
www.LiquidIceCoolant.com
E-mail: sales@liquidicecoolant.com

Emergency Telephone Number

Company Telephone Number: +1 - (704) 882-3505

Company Fax Number: +1 - (704) 882-8665

Emergency Telephone Number (24 hr.): Chemtrec (800) 424-9300 (North America), +1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION

Classification:

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29CFR 1910.1200). However, the Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

Appearance: Straw to amber liquid

Physical State: Liquid at 77 °F (25 °C)

Odor: Mild

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients:

Chemical Name	CAS No.	Weight %
Triethanolamine	102-71—6	0.1 – 10.0%

Non-Hazardous Ingredients:

Chemical Name	CAS No.	Weight %
Proprietary Blend	N/A	10 – 65%
Water	7732-18-5	25 – 65%

If “Chemical Name/CAS No.” is “proprietary” or Weight % is listed as a range, the specific chemical identity or percentage of composition has been withheld as a trade secret

4. FIRST AID MEASURES

- Eye Contact:** 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 Contact:** 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.
- Ingestion:** If victim is conscious, give large amounts of water or milk. Get medical attention. Never give anything by mouth to an unconscious person.
- Note to Physician:** Treat according to person's condition and specifics of exposure.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:
Water spray jet, foam, carbon dioxide, dry powder

Unsuitable Extinguishing Media:
Not determined

Specific Hazards Arising from the Chemical: None known

Protective Equipment and Precautions for Fire Fighters:

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.

Hazardous Combustion Products: Oxides of Nitrogen (NOx) and Carbon

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions:	Use personal protection recommended in Section 8
Other Information:	FOR ALL TRANSPORTATION ACCIDENTS CALL CHEMTREC AT (800) 424-9300 OR +1-703-527-3887 FOR INTERNATIONAL COLLECT CALLS
For Emergency Responders:	Keep unnecessary and unprotected personnel from entering. Use personal protection recommended in Section 8
Environmental Precautions:	See Section 12 for additional Ecological information. See Section 13, Disposal Considerations for additional information

Methods and Materials for cleaning up:

Methods for Containment:	Prevent further leakage or spillage if safe to do so
Methods for Clean-up:	Small Spill: Dike spilled material if possible. Collect spilled material with an inert absorbent such as sand or vermiculite. Shovel waste material into properly labeled closed container. Flush area with water to remove residue. Do not discharge into storm drains or the aquatic environment. Large Spill: Same basic procedure as for small spill. Pumps or vacuum may be needed to remove spilled material.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Advice on Safe Handling:	Handle in accordance with good industrial hygiene and safety practices. Use personal protection recommended in Section 8. Avoid skin and eye and clothing contact.
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Conditions for safe storage, including any incompatibilities

Storage Conditions:	Store in original containers in a cool, dry and well ventilated space. Keep containers tightly closed when not in use. Store at 5-40 °C (40 – 105 °F)
Incompatible Materials:	Strong oxidizers, highly alkaline products, nitrites, nitrosating agents.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

<u>Exposure Guidelines:</u>	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies
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Appropriate Engineering Controls

Engineering Controls:	Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers
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Individual Protection measures, such as personal protective equipment:

Eye/Face Protection:	Safety glasses or chemical worker's goggles.
Skin/Body Protection:	Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Protective clothing to minimize skin contact should be worn, as well as chemically resistant safety shoes. Butyl rubber, PVC or Neoprene protective gloves are recommended.

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

General Hygiene Consideration: Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State:	Liquid at 77° F (25° C)
Color:	Straw to Amber
Odor:	Mild
Odor threshold:	Not determined
Specific Gravity @ 20°C:	1.04
Density:	8.7 lb./gal.
Viscosity:	20 cPs at 25°C
Freezing Point:	0°C (32°F)
Boiling Point:	> 100°C (212°F)
Flash Point:	> 220° C (> 428° F)
Autoignition Temperature:	None
Decomposition temperature:	> 220° C (> 428° F)
Evaporation Rate	Not determined
Flammability (solid, gas):	Liquid (not applicable)
Upper Flammability Limit:	Not applicable – product will not ignite
Lower Flammability Limit:	Not applicable – product will not ignite
Vapor Pressure @ 20°C:	< 0.01 mm Hg
Vapor Density:	Not determined
Solubility in Water:	Soluble
Solubility in other solvents:	Not determined
pH:	9.5 (10% in water @ 25°C)
Kinematic Viscosity:	Not determined
Dynamic Viscosity:	Not determined
Explosive Properties:	None known
Oxidizing Properties:	Not determined
VOC Content:	10 g/L (ASTM E-1868/10SCAQMD Rule 1144)

Note: The above are typical properties and cannot be construed as specifications.

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions:

None under normal processing

Hazardous Polymerization: Hazardous polymerization will not occur.

Conditions to Avoid:

Do not use highly alkaline products or nitrites or nitrosating agents with this product.

Incompatible materials:

Strong oxidizers

Hazardous Decomposition Products

Carbon Oxides, Nitrogen Oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact: Avoid contact with eyes
Skin contact: Avoid contact with skin and clothing
Inhalation: Avoid breathing vapors or mists
Ingestion: Do not taste or swallow

Component Information

Chemical Name	Oral LD60	Dermal LD60	Inhalation LD60
Water 7732-18-5	>90 mL/Kg (rat)	---	---

Information on physical, chemical and toxicological effects

Symptoms See Section 4 of this SDS for symptoms

Delayed and immediate effects as well as chronic effects from short and long term exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

Numerical Measures of Toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment

Persistence/Degradability:

Biodegradable

Bioaccumulation:

Not determined

Mobility:

Not considered mobile

Other Adverse Effects:

Not determined

13. ECOLOGICAL INFORMATION

Waste Treatment Methods

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

Contaminated Packaging Disposal should be in accordance with applicable federal, regional and local laws and regulations

14. TRANSPORT INFORMATION

Note: See current shipping paper for most up to date shipping information, including exemptions and special circumstances

DOT Not regulated

Ocean Shipment (IMDG) Not regulated

Air Shipment (IATA) Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA: Listed
NDSL: Listed
EINECS: Listed

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) 40 CFR 302, or the Superfund Amendments and Reauthorization Act (SARA) 40 CFR 355

Section 311/312 Hazard Categories:

Acute Health Hazard: No
Chronic Health Hazard: No
Fire Hazard: No
Pressure Hazard: No
Reactive Hazard: No

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1966 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act):

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm: Triethanolamine

US State Right to Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Reactivity	Special Hazards
	1	0	0	Not determined
HMS	Health Hazards	Flammability	Reactivity	Personal Protection
	1	0	0	A

Issue Date: May 1, 2005
Revision Date: April 27, 2015
Revision Note: New Format

The information and recommendations contained herein are, to the best of Liquid Ice Corporation's knowledge and belief, accurate and reliable as of the date issued. Liquid Ice Corporation does not warrant or guarantee their accuracy or reliability, and Liquid Ice Corporation shall not be liable for any loss or damage arising out of the use thereof. The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.

End of Safety Data Sheet