



Safety Data Sheet (SDS)

1. IDENTIFICATION

Product Identifier

Product Name: Clear Power LF

Other Means of Identification:

SDS No.: CPLF-002

Recommended use of the chemical and restrictions on use:

Recommended use: Metalworking and floor cleaner

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.

2.1. Classification:

EC Regulation No. 1272/2008:

Skin Irritation: Category 2

Serious eye damage, Category 1

Health hazard, Category 1

H304: May be fatal if swallowed and enters airways

H318: Causes serious eye damage

H315: Causes skin irritation

H336: May cause drowsiness or sickness

Classification (67/548/EEC, 1999/45/EC)

Irritant

R41: Risk of serious damage to eyes

2.2. Labeling (Regulation EC No. 1272/2008)

Hazard pictograms:



Signal word:

Danger

Hazard Statements:

H315: Causes skin irritation, H318: Causes serious eye damage

H336: May cause drowsiness or dizziness

H304: May be fatal if swallowed and enters airways

Precautionary Statements:

Prevention

P261: Avoid breathing dust/fume/gas/mist/vapor/spray

P280: Wear protective gloves/eye protection/face protection

P273: Avoid release to the environment

Response

P305, P351, P338: IF IN EYES: Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P308: IF EXPOSED OR CONCERNED

P331: Do NOT induce vomiting

P501: Dispose of contents/container in accordance with local/national/international regulations

2.3. Other Hazards

According to our present knowledge, this product does not contain persistent, bioaccumulative and toxic (PBT) substances or very persistent/very bioaccumulative (vPvB) substances as defined in Annex XIII of the Regulation (EG) No. 1907/2006 (REACH) respectively

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients:

Chemical Name	CAS No.	Weight %
Potassium Hydroxide	1310-58-3	1.0 – 5.0%

Non-Hazardous Ingredients:

Chemical Name	CAS No.	Weight %
Proprietary Blend	N/A	5.0 – 15.0%
Water	7732-18-5	80 - 90%

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: No special measures required

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.

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 acidic conditions

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Guidelines: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies

Appropriate Engineering Controls

Engineering Controls: Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers

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: Do not swallow. 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: Clear to slightly yellow
Odor: Characteristic
Odor threshold: Not determined
Specific Gravity @ 20°C: 1.045
Density: 8.8 lb./gal.
Viscosity: 7 cPs at 25°C
Freezing Point: 0°C (32°F)
Boiling Point: > 100°C (212°F)
Flash Point: Product will not ignite
Autoignition Temperature: None applicable
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:	13.4 (10% in water @ 25°C)
Kinematic Viscosity:	Not determined
Dynamic Viscosity:	Not determined
Explosive Properties:	None known
Oxidizing Properties:	Not determined
VOC Content:	1 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:

Highly acidic conditions.

Incompatible materials:

Strong oxidizers

Hazardous Decomposition Products

Carbon Oxides, Nitrogen Oxides (NOx)

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute oral toxicity: LD50 : > 2,500 mg/Kg (mouse)

Primary Irritant Effect

Skin: (Rabbit OECD 404): Causes skin irritation

Eye: (Rabbit OECD 405): Causes serious eye damage

Sensitization (Guinea Pig OECD 406): Based on available data, the classification criteria are not met

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

Numerical Measures of Toxicity

Not determined

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic Toxicity:
EC-50/48h (OECD 202): 4,550 mg/L (Daphnia Magna)
LC50/96h (OECD 203): 16,530 mg/L (Pimephales Promelas)

Persistence/Degradability:

No further relevant information available

Bioaccumulation:

No further relevant information available

Mobility:

No further relevant information available

AOX Information: AOX absent

Results of PBT and vPvB assessment:

PBT: Not applicable

vPvB: Not applicable

Other Adverse Effects:

No further relevant information available

13. DISPOSAL CONSIDERATIONS

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 dangerous goods

Air Shipment (IATA) Not dangerous goods

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: Yes
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: None

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
	2	0	0	Not determined
HMIS	Health Hazards	Flammability	Reactivity	Personal Protection
	2	0	0	C

The information contained herein is based on the present state of our knowledge, and in compliance with 91/155/EC Directive (subsequent modifications and integrations) and 1907/2006/EC regulation.

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LEL	lower explosive limit
AICS	Australia, Inventory of Chemical Substances	mg	milligram
ADR	European Agreement concerning the International Carriage of Dangerous goods by Road	mL	milliliter
ANSI	American National Standards Institute	LOAEL	Lowest Observed Adverse Effect Level
BOD	biological oxygen demand	ND	not determined
CAS	Chemical Abstracts Service	NDSL	Canada, Non-Domestic Substances List
CLP	Classification, Labeling and Packaging in a European Union Regulation (EC No 1272/2008, 16 December 2008)	NFPA	National Fire Prevention Association
CNS	Central Nervous System	NIOSH	National Institute for Occupational Safety & Health
COD	chemical oxygen demand	NOAEL	No Observable Adverse Effect Level
DOT	Department of Transportation	NOEC	No Observed Effect Concentration
DSL	Canada, Domestic Substances List	NTP	National Toxicology Program
DSCL	Dangerous substances classification and Labeling	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	OSHA	Occupational Safety & health Administration
EC50	Effective Concentration 50%	PEL	Permissible Exposure Limit
FDA	Food and Drug Administration	PICCS	Philippines Inventory of Commercial Chemical Substances
GHS	Globally Harmonized System	PRNT	Presumed Not Toxic
>/=	greater than or equal to	RCRA	Resource Conservation Recovery Act
HMIS	Hazardous Materials Information System	REACH	Registration, Evaluation, Authorization and Restriction of Chemicals (EC No 1907/2006)
IARC	International Agency for Research on Cancer	RID	Regulations Concerning the International Transport of Dangerous Good by Rail
IATA	International Air Transport Association	RQ	reportable quantity
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act
ICAO	International Civil Aviation Organization	STEL	Short-term Exposure Limit
IECSC	Inventory of Existing Chemical Substances in China	TLV	Threshold Limit Value
IMDG	International Maritime Code for Dangerous Goods	TSCA	Toxic Substances Control Act
KECI	Korea, Existing Chemical	TWA	Time Weighted Average
L	Liter	UEL	upper explosive limit
LC50	Lethal concentration, 50 percent	UVCB	Unknown or Variable Composition
LD50	Lethal dose, 50 percent	WHMIS	Workplace Hazardous Material Information System

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Revision Note: Corrections on typos

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End of Safety Data Sheet