

Issue Date: 15-Oct-2005

Revision Date

11-Dec-2017

Version 1

1. IDENTIFICATION

Product Identifier

Product Name DLX Fuel Line De-Icer #90

Other Means of Identification

SDS # CALWIS-006

UN/ID No UN1219

Synonyms DLX Fuel Line De-Icer #90
DLX Fuel Line De-Icer #90-55

Recommended Use of the Chemical and Restrictions On Use

Recommended Use Fuel additive.

Details of the Supplier of the Safety Data Sheet

Supplier Address

Calwis Company
901 Hinkle Street
Green Bay, WI 54303

Emergency Telephone Number

Company Phone Number 1-920-499-4990
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Serious eye damage-eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

Signal Word

Danger

Hazard Statements

Causes severe eye irritation.
May cause respiratory irritation. May cause drowsiness or dizziness.
Highly flammable liquid and vapor.



Appearance Transparent, colorless liquid

Physical State Liquid

Odor Characteristic alcohol odor

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Use only outdoors or in a well-ventilated area
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Keep away from heat/sparks/open flames/hot surfaces. -- No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use explosion - proof equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Wear protective gloves/protective clothing/eye protection/face protection
 Keep cool

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing
 If eye irritation persists: Get medical advice/attention
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor/physician if you feel unwell
 In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed
 Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed
 May be harmful if inhaled

Other Information

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS
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Synonyms

DLX Fuel Line De-Icer #90
 DLX Fuel Line De-Icer #90-55

Chemical Name	CAS No.	Weight %
Isopropyl alcohol	67-63-0	99
Non-hazardous Ingredients	Proprietary	1

4. FIRST AID MEASURES

First Aid Measures**General Advice**

If exposed or concerned: Get medical advice/attention.

Inhalation

Remove to fresh air. Get medical attention if symptoms persist. Get medical attention if you feel unwell.

Eye Contact

Flush immediately eyes thoroughly with water for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

Induce vomiting if discovered within 2 hours. Call immediately a physician or your local Poison Control Center.

Skin Contact Wash off immediately with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention if necessary.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms May produce dermatitis and scaling on chronic skin contact.
Irritation of eyes and mucuous membranes.
Headache.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray (fog). Carbon dioxide (CO2). Dry chemical. Alchohol resistant foam.

Unsuitable Extinguishing Media. Not determined.

Specific Hazards Arising from the Chemical

Vapors are heavier than air and may travel along ground to ignition sources and flash back. Use water to keep fire-exposed structures and container cool.

Hazardous combustion products. Carbon oxides. Carbon monoxide. Carbon dixoide (CO2).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Use personal protection recommended in Section 8.

Environmental Precautions See Section 12 for additional ecological information.

Methods and Material for Containment and Cleaning Up

Methods for Containment Eliminate all ignition sources. Contain spills in diking materials such as sandbags.

Methods for Cleaning Up For waste disposal, see section 13 of the SDS. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. All equipment used when handling the product must be grounded. Use with adequate ventilation. Empty containers may contain flammable residual vapors. Wash face, hands, and any exposed skin thoroughly after handling. Avoid breathing dust/fumes/gas/mist/vapors/spray. Use spark-proof tools and explosion-proof equipment. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. --No smoking. Use personal protective equipment as required. Take precautionary measures against static discharges.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Store in a well-ventilated place. Do not handle or store near any sources of ignition or strong oxidants. Keep container tightly closed. Store locked up.

Incompatible Materials Oxidizing materials. Organic acids. Inorganic acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³

Appropriate Engineering Controls

Engineering Controls Good general ventilation should be used. Apply technical measures to comply with the occupational exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Use chemical safety goggles if contact is likely.

Skin and Body Protection Wear suitable protective clothing.

Respiratory Protection No protective equipment is needed under normal use conditions.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off all contaminated clothing and wash it before reuse. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Avoid breathing (dust, vapors, mist, gas).

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Characteristic alcohol
Appearance	Transparent, colorless liquid		odor
Color	Colorless	Odor threshold	Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not determined	
Melting point/freezing point	-89 °C -127 °F	
Boiling point/boiling range	82 °C 180 °F	
Flash point	11.7 °C 53 °F	CC (closed cup)
Evaporation rate	1.7	(butyl alcohol = 1)
Flammability (solid, gas)	N/A- Liquid	
Flammability limits in air		
Upper flammability limits	12.7%	
Lower flammability limit	2.5%	
Vapor pressure	40 mmHg	@ 24°C (75.2 °F)
Vapor density	2.1	(Air =1)
Specific gravity	0.785	(1=Water)
Water solubility	Soluble in water	
Solubility in other solvents	Not determined	
Partition coefficient	Not determined	
Autoignition temperature	432.2 °C 810 °F	

Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not determined
Oxidizing properties	Not determined

Other Information

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Heat, flames and sparks.

Incompatible Materials

Oxidizing materials. Organic acids. Inorganic acids.

Hazardous Decomposition Products

Carbon oxides. Carbon monoxide. Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

- Inhalation** May be harmful if inhaled.
- Eye Contact** Causes severe eye irritation.
- Skin Contact** Avoid contact with skin.
- Ingestion** May be harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl alcohol 67-63-0	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rat) = 12800 mg/kg (Rabbit)	= 72.6 mg/L (Rat) 4 h

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Serious eye damage/eye irritation Causes severe eye irritation.

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0		Group 1 Group 3		X

STOT - single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

Numerical Measures of Toxicity - Product

Not determined

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	4440 mg/kg
ATEmix (dermal)	25253 mg/kg
ATEmix (inhalation-dust/mist)	73.3 mg/l
ATEmix (inhalation-vapor)	73.3 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Isopropyl alcohol 67-63-0	1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50	9640: 96 h Pimephales promelas mg/L LC50 flow-through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus ug/L LC50		13299: 48 h Daphnia magna mg/L EC50

Persistence and Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined.

Chemical Name	Partition coefficient
Isopropyl alcohol 67-63-0	0.05

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical Name	California Hazardous Waste Status
Isopropyl alcohol 67-63-0	Toxic Ignitable

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No UN1219
Proper Shipping Name Isopropyl alcohol
Hazard Class 3
Packing Group II

IATA

UN/ID No UN1219
Proper Shipping Name Isopropyl alcohol
Hazard Class 3
Packing Group II

IMDG

UN/ID No UN1219
Proper Shipping Name Isopropyl alcohol
Hazard Class 3
Packing Group II

15. REGULATORY INFORMATION

International Inventories

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Phillipines Inventory of Chemicals and Chemical Substances

US Federal Regulations

Chemical Name	CAS No.	Weight %	SARA 313 - Threshold Values %
Isopropyl alcohol - 67-63-0	67-63-0	99	1

SARA 311/312 Hazard Categories

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Isopropyl alcohol 67-63-0	X	X	X

U.S. EPA Label Information

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards Not determined	Flammability Not determined	Instability Not determined	Special Hazards Not determined
<u>HMIS</u>	Health Hazards 1	Flammability 3	Physical Hazards 0	Personal Protection Not determined

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Revision Note

New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet