

SAFETY DATA SHEET

Product Name: LS-5 MQL
Product Id Number: LS-5
Revision Date: 02/03/2023

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: LS-5
Synonym(s): Minimum quantity lubricant

Manufactured / Supplied by:

Liquid Solutions Inc.
16 Community Avenue - Unit 1
Stoney Creek, Ontario L8E 2Y2
905-510-2443

For Emergency Information contact: Liquid Solutions Inc. - 1-905-510-2443
For Non-Emergency Information contact: Liquid Solutions Inc. - 1-905-510-2443

Formula: Proprietary

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

This product is classified as non hazardous	N/A
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2.2. Label Elements

Signal Word

Hazard Statements

2.3. Other information

Precautionary Statements

P264 - Wash face, hands and any exposed skin thoroughly after handling P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337 + P313 - If eye irritation persists: Get medical advice/ attention

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients are listed if they comprise $\geq 1.0\%$ by weight. "Special Hazardous Substances or Carcinogens" are listed if they comprise $\geq 0.1\%$ by weight.

Non-hazardous components

Chemical Name	CAS	Weight %
Synthetic ester		>95%

4. FIRST AID MEASURES

Ingestion:	If vomiting occurs, keep head lower than hips to prevent aspiration.
Skin:	For skin contact, wipe away excess material with dry towel. Then wash affected areas with plenty of water, and mild soap if available, for several minutes. Get medical attention if irritation occurs.
Inhalation:	Move person to fresh air.
Eyes:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Notes to Physician:	Treatment based on sound judgment of physician and individual reactions of patient.

5. FIRE FIGHTING MEASURES

Flash Point: 228 C
Method: COC

Flammable Limits in Air - Upper (%): Maximum % by volume of vapor in air above which propagation of flame does not occur on contact with a source of ignition: N/D

Sensitivity to Mechanical Impact (Y/N): NO
Sensitivity to Static Discharge (Y/N): Sensitivity to static discharge is not expected.
Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical

Special Firefighting Procedures:
Containers can build up pressure if exposed to heat (fire). Vapors may form ignitable mixture with air.

6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled:
Wash walking surfaces with detergent and water to reduce slipping hazard. Large quantity spills should be contained and pumped into drums for recovery or disposal. Wipe, scrape or soak up in an inert material and put in a container for disposal.

7. HANDLING AND STORAGE

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Precautions to be taken in handling and storage:

Good hygienic practices should be observed. Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded with material. Recommended storage in original container below 40°C (105°F).

NFPA		HMIS	
Health	0	Health	0
Flammability	1	Flammability	1
Reactivity	0	Reactivity	0
Other	N/A	PPE	B

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: None required.

Personal Protection Equipment

Respiratory Protection:

None required under normal conditions.

Protective Gloves:

None required under normal conditions.

Eye and Face Protection:

Wear safety glasses or goggles to protect against exposure.

Other Protective Equipment:

Wear clean, body-covering clothing.

Ventilation: None known.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	> 350 C
Vapor Pressure:	Unknown
Vapor Density (Air = 1):	NA
Freezing Point:	Unknown
Melting Point:	< 2 C
Physical State:	Liquid
Odor:	Essentially Odorless
Odor Threshold (ppm):	Unknown
Color:	COLORLESS-CLEAR
Evaporation Rate (Butyl acetate = 1):	Negligible
Pounds / Gallon (Water = 8.3):	7.7 lbs/gal
Density @ 25°C (Water = 1):	0.85 - 0.86
Acid / Alkalinity (MEQ/G):	Unknown
pH:	N/D
VOC (EPA Meth.24) (g/L):	Unknown
Solubility in Water (20 °C):	INSOLUBLE IN WATER
Solubility in Organic Solvents:	ALCOHOL, ETHER, ACETONE
Viscosity:	15 cSt @ 25 C

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Polymerization:	Will not occur
Hazardous Thermal Decomposition / Combustion Products:	None known.
Incompatibility (Materials to Avoid):	None known.
Conditions to Avoid:	None known.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	Not Available
Skin Irritation:	Not Available
Eye Contact:	Not Available
Sensitization:	Not Available

¹ Based on product test data available in public domain.

² Based on test data from a similar product.

³ Based on test data from similar products, extrapolation from tests on similar materials, review of component data, or a combination of these sources.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:	No data at this time
Chemical Fate Information:	No data at this time.

13. DISPOSAL CONSIDERATIONS

Disposal Method:	As local regulations may vary; all waste must be disposed/recycled/reclaimed in accordance with federal, state, and local environmental control regulations.
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14. TRANSPORT INFORMATION

Department of Transportation Information

Shipping Name:	Fatty Acid Ester
Hazard Class:	Non-Regulated
Label(s):	NONE
UN/NA Number:	NONE
Placards:	NONE

International Transportation Classifications

IATA, International Air Transportation	Non-Regulated
IMDG, International Maritime Dangerous Goods	Non-Regulated

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

All of the components in the product are on the following Inventory lists:

TSCA	All components of this product are listed on the TSCA Inventory.
EU REACH	Pre-registered
DSL/NDSL	Complies
AICS	Complies
Chinese Chemical Inventory Status:	Not Available

Legend

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

REACH - EU Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals

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

AICS - Australian Inventory of Chemical Substances

15.2. Chemical Safety Assessment

No information available

16. OTHER INFORMATION

Revision Date 02/03/2023

Revision Note Update to hazardous statement

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

General Disclaimer

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text

End of Safety Data Sheet

***** END OF MSDS *****