

Safety Data Sheet

LS-8 MQL Cutting Fluid

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: LS-8 cutting and sawing fluid
Revision Date: 03/28/2022
Synonyms: Triglyceride metalworking fluid

Produced by: Name, address, and telephone number of manufacturer

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

INFORMATION TELEPHONE NUMBER: (905) 510-2443
EMERGENCY TELEPHONE NUMBER : +1 (905) 510-2443

Manufacturer

2. HAZARDS IDENTIFICATION

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) and WHMIS 2015/HPR, this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and made available for employees and other users of the product.

Signal Word: None
Pictograms: None

Hazard Statement(s): No known significant effects or critical hazards
Supplemental label elements: Avoid contact with skin and clothing. Wash thoroughly after handling.
Hazards not otherwise classified: Prolonged or repeated contact may dry skin and cause irritation.

3. COMPOSITION / INFORMATION ON COMPONENTS

Chemical Name	CAS#	Weight %
Tryglycerides Mixture	8002-13-9	100%

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.

Skin Contact: Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Inhalation: no known significant effects or critical hazards
Ingestion: no known significant effects or critical hazards
Skin contact: no known significant effects or critical hazards
Eye contact: no known significant effects or critical hazards

Over-exposure signs/symptoms

Eye Contact: No specific data

Safety Data Sheet

LS-8

Skin Contact: No specific data
Ingestion: No specific data
Inhalation: No specific data

Indication of immediate medical attention and special treatment needed, if necessary:

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. See Section 11, toxicological information.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing media: carbon dioxide, foam, dry chemical, water spray, Class ABC/BC fire extinguisher
Unsuitable Extinguishing media: do not use a solid water stream as it may scatter and spread fire

Fire and explosion hazards: Risk of dust explosion

Hazardous combustion products: heavy smoke, carbon oxides

Special protective actions and equipment for fire fighters:

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. 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

For Non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, refer to Section 8 for suitable and unsuitable materials. See also the information "for non-emergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

7. HANDLING AND STORAGE

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8)

Safety Data Sheet

LS-8

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Occupational exposure limits: None

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gasses or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Hand protection:

chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection:

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Safety Data Sheet

LS-8

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Vapor pressure:	<1 mm HG
Color:	Light amber to yellow	Vapor density:	>1 (air = 1)
Odor:	Mild fatty	Specific gravity:	0.91
pH:	Not available	Solubility in water:	Immiscible
Melting Point:	Not available	Solubility in other solvents:	Not determined
Boiling Point:	>260°C (>500°F)	Auto-ignition temperature:	Not determined
Flash Point:	>250°C (>482°F) Open Cup	Decomposition temperature:	Not determined
Evaporation Rate:	Not available	Viscosity:	38 cSt (180 SUS) @40°C (104°F)
Flammability (solid, gas)	Not available	Viscosity Index	210
Lower and upper explosive (flammable limits)	Not available		

10. STABILITY AND REACTIVITY

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable under normal conditions of use and storage.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	Keep away from heat, sparks and flames. Keep away from all sources of ignition.
Incompatible materials:	Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:	Not available
Inhalation:	Inhalation of aerosol or mist may cause irritation of the respiratory tract
Ingestion:	Ingestion may cause stomach discomfort

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Triglycerides Mixture 8002-13-9	>5 g/Kg (rat)	--	--

Sensitization:	not available
Mutagenicity:	not available
Sensitization:	not available
Carcinogenicity:	not available
Reproductive toxicity:	not available
Teratogenicity:	not available
Specific target organ toxicity (single exposure):	not available
Specific target organ toxicity (repeated exposure):	not available
Aspiration hazard:	not available

12. ECOLOGICAL INFORMATION

Toxicity:	not toxic to aquatic organisms
Persistence and degradability:	Biodegradable in terrestrial ecosystems and biological treatment systems
Bio-accumulative potential:	Not available
Other adverse effects:	May be harmful if a significant amount is released to surface water
Soil/water partition (Koc):	Not available

Safety Data Sheet

LS-8

13. DISPOSAL CONSIDERATIONS

Waste disposal methods: Waste must be disposed of in accordance with federal, state and local environmental control regulations. Recover and reclaim or recycle, if practical. Confirm disposal procedures with environmental engineer and local regulation.

Contaminated packaging: Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Classification: Not regulated
IMDG/IMO: Not regulated
IATA: Not regulated
MEX: Not regulated
TDG: Not regulated
Environmental hazards: No
Special precautions for user: Not applicable
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

5. Regulatory Information

International Inventories

TSCA, U.S. Toxic Substances Control Act Section 8(b) Inventory:	Complies
DSL, Canadian Domestic Substances List:	Complies
EINECS, European Inventory of Existing Commercial Chemical Substances:	Complies
IECSC, China Inventory of Existing Chemical Substances:	Complies
KECL, Korean Existing and Evaluated Chemical Substances:	Complies
PICCS, Philippines Inventory of Chemicals and Chemical Substances:	Complies
AICS, Australian Inventory of Chemical Substances:	Complies

US Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (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

SARA 311/312 Hazard Categories

Acute health hazard	no
Chronic health hazard	no
Fire hazard	no
Sudden release of pressure hazard	no
Reactive hazard	no

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).

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). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this material.

US Federal Regulations

U.S. State Right-to-Know Regulations: This product does not contain any substances regulated by state right-to-know regulations.

California Proposition 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

Safety Data Sheet

LS-8

16. OTHER INFORMATION

NFPA Labeling

Health Hazard: 0
Flammability 1
Instability: 0
Physical and Chemical Hazards: n.a.

HMIS

Health Hazard: 0
Flammability: 1
Physical Hazards: 0
Personal Precautions: B

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:

The information contained herein is based upon data believed to be reliable and reflects our best professional judgment. Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein and assume no responsibility regarding the suitability of this information for the user's intended purpose or for the consequence of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s). Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.