

Safety Data Sheet



Issue Date: April 3, 2021

Revision Date: January 11, 2022

Version 1

1. IDENTIFICATION

Product identifier

Product Name Innoleate® Li-12HS

Other means of identification

SDS # INN-084

Recommended use of the chemical and restrictions on use

Recommended Use Grease thickener, lubricants, lubricant additives

Details of the supplier of the safety data sheet

Supplier Address

Innoleo LLC
Innoleo & Co.
Qianqian [a] innoleo.com
www.innoleo.com
sales@innoleo.com

Emergency telephone number

Company Phone Number Phone: (561) 994-8905 [a] innoleo.com

Fax: (561) 994-9247

Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance White/off white powder

Physical state Powder

Odor Characteristic

Classification

Skin irritation Category 2

Eye irritation Category 2

STOT SE Category 3

Signal Word

Warning

Hazard statements

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Lithium 12-hydroxystearate	7620-77-1	100

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

4. FIRST AID MEASURES**Description of first aid measures**

Eye Contact	Flush eyes with plenty of water while removing any contact lenses, then hold eyelids open and continue flushing 15 minutes. Get medical attention if irritation occurs.
Skin Contact	Wash the skin immediately with soap and water. Seek medical attention if irritation develops.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if cough or other symptoms develop.
Ingestion	Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention/advice.

Most important symptoms and effects, both acute and delayed

Symptoms	Dust from product may cause minor eye irritation.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Foam. Carbon dioxide (CO2). Water. Dry chemical. Sand.

Unsuitable Extinguishing Media Do not use heavy water stream or water jet stream as this may spread the fire.

Specific Hazards Arising from the Chemical

Not considered flammable, but will burn under fire conditions. High concentrations of dust in air may present a fire or dust explosion hazard.

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. Do not use heavy stream of water. Burning material may splatter surrounding area and spread fire. Strong water stream may raise dust into the air potentially contributing to an explosive dust atmosphere. Cool fire exposed containers with water.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions	Use personal protection recommended in Section 8.
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Other Information

FOR ALL TRANSPORTATION ACCIDENTS CALL INFOTRAC 1-352-323-3500
(International) / 1-800-535-5053 (North America).

Environmental precautions**Methods and material for containment and cleaning up****Methods for Containment**

Isolate spill/ release area. Prevent run-off to sewers, streams or other bodies of water.

Methods for Clean-Up

Small spill: Stop spill at source. Vacuum, scoop or sweep up spill, avoiding the creation of airborne dust and place into suitable container for disposal. For vacuuming use only explosion proof equipment. Large spill: Stop spill at source. Moisten with a light water fog to reduce the generation of airborne dust. Eliminate all ignition sources. Carefully scoop or sweep and place into an appropriate container for disposal. Wash floors with hot soapy water to prevent slipping.

7. HANDLING AND STORAGE

Precautions for safe handling**Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Minimize dust generation and accumulation. Take precautionary measures against static discharges. Avoid breathing dusts.

Conditions for safe storage, including any incompatibilities**Storage Conditions**

Keep away from heat, sparks, and flame. Store in a cool, dry, well-ventilated place. Store away from oxidizers.

Incompatible Materials

Oxidizing materials.

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**

Provide local ventilation if dust is generated. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment**Eye/Face Protection**

Safety glasses with side shields or chemical goggles.

Skin and Body Protection

Impervious gloves. Clean body covering.

Respiratory Protection

Ensure adequate ventilation, especially in confined areas. Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure limits are exceeded.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	White/off white powder	Odor	Characteristic
Appearance	White/off white powder	Odor Threshold	Not applicable
Color	White/off white		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	7.0-9.0	
Melting point / freezing point	>200C	
Boiling point / boiling range	No data available	
Flash point	>250C	
Evaporation Rate	No data available	
Flammability (Solid, Gas)	No data available	
Flammability Limit in Air		
Upper flammability or explosive limits	Not available	
Lower flammability or explosive limits	Not available	
Vapor Pressure	No data available	
Vapor Density	No data available	
Relative Density	No data available	
Water Solubility	Approx. 200 mg/L	
Solubility in other solvents	Soluble in aromatic solvents	
Partition Coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Dynamic Viscosity	No data available	
Explosive Properties	No data available	
Oxidizing Properties	No data available	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Risk of dust explosion.

Conditions to Avoid

Keep away from sources of ignition such as heat, sparks or open flames. Incompatible Materials. Avoid dust formation.

Incompatible materials

Avoid mixing with acidic media. Strong oxidizing agents

Hazardous decomposition products

Thermal decomposition products can include toxic oxides of carbon such as CO, CO₂ and dense smoke.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes.

Skin Contact Avoid contact with skin.

Inhalation Do not inhale.

Ingestion Do not ingest.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lithium 12-hydroxy stearate, CAS#7620-77-1	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat) Read-across	-

Symptoms related to the physical, chemical and toxicological characteristics

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

Carcinogenicity Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity

12. ECOLOGICAL INFORMATION

Ecotoxicity

The 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.

Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Lithium 12-hydroxy stearate, CAS#7620-77-1	EL50:>100 mg/l, 72h, Pseudokirchneriella subcapitata Read-across	LL50:>100mg/l, 96h, Oncorhynchus mykiss Read-across	

Persistence/Degradability

Aerobic, 97%, Readily biodegradable, 28day, activated sludge, OECD 301B Read-across

Bioaccumulation

Not considered to be bio accumulating

Mobility

Not determined

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.

14. TRANSPORT INFORMATION

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
<u>DOT</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	DSL	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Lithium 12-hydroxy stearate, CAS#7620-77-1	X	X	X	X	X	X	X	X

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 - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

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).

SARA 313

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

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

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

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

16. OTHER INFORMATION

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

Issue Date: April 3, 2021
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Revision Note: Address update

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