

MSO CONCENTRATE with LECI-TECH

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 07/17/2020

SUPERSEDES: 03/27/2017

1. PRODUCT AND COMPANY IDENTIFICATION

<u>Product identifier</u> Product Name	MSO CONCENTRATE with LECI-TECH
Other means of identification Product Code Synonyms Registration Number(s)	ADJ-0018 None CA REG. NO. 34704-50053; WA REG. NO. 34704-07001
<u>Recommended use of the chemical</u> Recommended Use Uses advised against	and restrictions on use Spray Adjuvant. No information available
Details of the supplier of the safety Manufacturer Address LOVELAND PRODUCTS, INC. P.O. Box 1286 Greeley, CO 80632-1286	data sheet
Emergency telephone number Company Phone Number Emergency Telephone	1-888-LPI-CUST (574-2878) Chemtrec 1-800-424-9300 Medical Emergencies: 1-866-944-8565 US regulations require reporting spills of this material that could reach any surface waters. The toll-free phone number for the US Coast Guard National Response Center is 1-800-424-8802

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)

Label elements



Signal word

WARNING

The product contains no substances which at their given concentration, are considered to be hazardous to health

Precautionary Statements -Prevention

P264 - Wash face, hands and any exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product



MSO CONCENTRATE with LECI-TECH /2020 SUPERSEDES: 03/27/2017

	SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 07/17/2020 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P271 - Use only outdoors or in a well-ventilated area	SUPERSEDES: 03/27/201
Precautionary Statements - Response	P301 + P312 - IF SWALLOWED: Call a POISON CENTER or do unwell P312 - Call a POISON CENTER or doctor/physician if you feel u P330 - Rinse mouth	
Precautionary Statements - Disposal	P501 - Dispose of contents/ container to an approved waste disp	posal plant
Hazards not otherwise classified	I (HNOC)	

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Mixture</u>

Chemical Name	CAS No	Weight-%	GHS Classification	Trade Secret
Soybean oil, methyl ester	67784-80-9	60 - 100		*
LECITHIN	8002-43-5	10 - 30		*
Poly(oxy-1,2-ethanediyl), a-undecyl-w-hydroxy-	34398-01-1	10 - 30		*

*The exact percentage (concentration) of composition has been withheld as a trade secret. OSHA Hazard Communication 29 CFR 1910.1200



MSO CONCENTRATE with LECI-TECH

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 07/17/2020 4. FIRST AID MEASURES

SUPERSEDES: 03/27/2017

Description of first aid measures

General advice	Get medical attention if symptoms occur.					
Eye contact	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.					
Skin contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.					
Inhalation	Remove to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.					
Ingestion	Call a poison control center or doctor for treatment advice. Have person sip a glass of if able to swallow. Do NOT induce vomiting unless directed to do so by medical person Never give anything by mouth to an unconscious person.					
Self-protection of the first aider	Use personal protective equipment as required.					
Most important symptoms and effe	cts, both acute and delayed					
Symptoms	No information available.					
Indication of any immediate medical attention and special treatment needed						
Treatment:	Treat symptomatically. Symptoms may be delayed. Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also call 1-866-944-8565 for emergency medical treatment information.					
Note to physicians	No specific antidote. Treat symptomatically.					
Antidotes	No data available					
5. FIRE-FIGHTING MEASURES						

Suitable extinguishing media

Use extinguishing agent suitable for type of surrounding fire, Use CO₂, dry chemical, or foam

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.



SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 07/17/2020 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautionsEvacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use
personal protective equipment as required.Environmental precautionsPrevent further leakage or spillage if safe to do so. Prevent product from entering drains.
See Section 12 for additional ecological information.Methods and material for containment and cleaning upPrevent further leakage or spillage if safe to do so.Methods for containmentPrevent further leakage or spillage if safe to do so.Methods for cleaning upPrevent further leakage or spillage if safe to do so.Methods for cleaning upUse personal protective equipment as required. Dam up. Cover liquid spill with sand, earth
or other non-combustible absorbent material. Take up mechanically, placing in appropriate
containers for disposal. Clean contaminated surface thoroughly. Soak up with inert
absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

Incompatible materials None known based on information supplied.



MSO CONCENTRATE with LECI-TECH 7/2020 SUPERSEDES: 03/27/2017

 SDS REVISIONS: ALL SECTIONS
 DATE OF ISSUE: 07/17/2020
 SUPERSE

 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters					
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	Showers Eyewash stations Ventilation systems.				
Individual protection measures, su	ch as personal protective equipment				
Eye/face protection	Tight sealing safety goggles. Face protection shield.				
Skin and body protection	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.				
Respiratory protection	Dependent on job function. If vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved air-purifying respirator with any cartridges/filters approved for pesticides. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection Standard. Wear a supplied air respirator if exposure concentrations are unknown.				
General Hygiene Considerations	When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.				



MSO CONCENTRATE with LECI-TECH /2020 SUPERSEDES: 03/27/2017

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 07/17/2020 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Color Odor Odor threshold	Liquid Clear liquid Yellow Fatty No data available			
Property pH Melting point / freezing point Boiling point Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit:	Values (Remarks - Method) 6.9 (1% solution) No data available > 93 °C / > 200 °F > 100 °C / > 212 °F (Tag Closed Cup) No data available No data available No data available			
Lower flammability limit: Vapor pressure Vapor density Specific Gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties	No data available No data available No data available 0.9 g/ml Emulsifies No data available No data available No data available 115.5 Centistokes No data available No data available No data available No data available No data available			
Other Information VOC Content (%) Density	No data available 7.51lbs/gal			

<u>Note:</u> These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.



MSO CONCENTRATE with LECI-TECH

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 07/17/2020 **10. STABILITY AND REACTIVITY**

SUPERSEDES: 03/27/2017

Reactivity

No data available **Chemical stability** Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Acute toxicity of the formulated product:

Oral LD ₅₀	> 2,000 mg/kg Female rat
Dermal LD ₅₀	> 4,000 mg/kg (rat)
Inhalation (Dust) LC50	> 2.09 mg/l (rat, 4 hr)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Chronic toxicity	Avoid repeated exposure.
Aspiration hazard	No information available.

Information on likely routes of exposure

Product Information	No data available
Inhalation	No data available.
Eye contact	Irritating to eyes.
Skin contact	May cause skin irritation.
Ingestion	No data available.



MSO CONCENTRATE with LECI-TECH /2020 SUPERSEDES: 03/27/2017

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 07/17/2020 12. ECOLOGICAL INFORMATION

Ecotoxicity

Persistence and degradability

No information available.

Bioaccumulation No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at http://www.acrecycle.org/. Do not contaminate water, food or feed by storage or disposal.

Contaminated packaging

Do not reuse container.

14. TRANSPORT INFORMATION

DOT

UN/ID no Proper shipping name U.S. Surface Freight Classification:

Not regulated Not regulated ADHESIVES, ADJUVANTS, SPREADERS OR STICKERS (NMFC 4610; CLASS: 60)



MSO CONCENTRATE with LECI-TECH

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 07/17/2020 SUPERSEDES: 03/27/2017

15. REGULATORY INFORMATION							
<u>NFPA</u>	Health hazards 2	Flammat	pility 1	Instability 0		Physical and Chemical Properties -	
HMIS	Health hazards 2	Flammat	oility 1	Physical hazards		Personal protection X	
	0 - Least 1 -	Slight	2 - Moderate	3 - High	4 - S	evere	

US Federal Regulations

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

SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

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)

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 State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. EPA Label Information



MSO CONCENTRATE with LECI-TECH /2020 SUPERSEDES: 03/27/2017

SDS REVISIONS: ALL SECTIONS DATE OF ISSUE: 07/17/2020

16. OTHER INFORMATION

Prepared By Product Stewardship and Regulatory Affairs

Reviewed By Safety, Health and Environment

Issue Date07/17/2020Revision Date07/17/2020Revision Note07/17/2020All SDS sections updated

MSO CONCENTRATE with LECI-TECH

is a registered trademark of Loveland Products, Inc.

Disclaimer

This safety data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

End of Safety Data Sheet