SAFETY DATA SHEET

LEAF LIFE ORGANO mAAx Mn 5%



Section 1. Identification

Product identifier	
SDS #	
Product type	

: LEAF LIFE ORGANO mAAx Mn 5%

: 189

: Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses		
Fertilizer.		
Uses advised against		
Not available.		

Supplier's details	: LOVELAND PRODUCTS, INC. P.O. Box 1286 Greeley, CO 80632-1286
Telephone no.: Email	: 1-888-574-2878 (Customer Service) : retail-SDS2@nutrien.com
Emergency telephone number (with hours of operation)	: CHEMTREC: 1-800-424-9300 (24 hrs) Medical Emergencies: 1-866-944-8565 (24 hrs)

Section 2. Hazard identification

OSHA/HCS status	:		al is considered hazardo 9 CFR 1910.1200).	ous by the OSHA Haza	rd Communic	ation	
Classification of the substance or mixture	:		ATION - Category 2A TARGET ORGAN TOXI	CITY (REPEATED EX	POSURE) - C	ategory	2
GHS label elements							
Hazard pictograms	:						
Signal word		Warning	\mathbf{V}				
Signal word		Warning	· · · · · · · · · · · · · · · · · · ·				
Hazard statements	1		ious eye irritation. damage to organs throu	igh prolonged or repea	ted exposure.		
Precautionary statements							
General	:		before use. Keep out o ct container or label at h		nedical advice	is need	led,
Prevention	:	Wear eye o	r face protection. Do no	ot breathe vapor. Was	h thoroughly a	after har	dling.
Response	:	water for se	I advice or attention if yo everal minutes. Remove nsing. If eye irritation pe	contact lenses, if pres	ent and easy t	to do.	v with
Storage	:	Not applical	ble.				
Disposal	:	Dispose of	contents and container i tional regulations.	n accordance with all I	ocal, regional,	nationa	al
Date of issue/Date of revision		: 9/6/2022	Date of previous issue	: 11/23/2021	Version	:2	1/12

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	% (w/w)	CAS number
manganese sulfate	10 - 15	7785-87-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid measures

Description of necessary first aid measures

Eye contact :	Begin eye irrigation immediately. Exposures to eye irritants may require medical evaluation following decontamination if pain or irritation persists. Immediately rinse eyes with large quantities of water or saline for a minimum of 15 minutes. If possible, remove contact lenses being careful not to cause additional eye damage. If the initial water supply is insufficient, keep the affected area wet with a moist cloth and transfer the person to the nearest place where rinsing can be continued for the recommended length of time. For additional advice call the medical emergency number on this SDS or your poison center or doctor.
Inhalation :	Remove person to fresh air and keep comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact :	No known significant effects. Rinse the affected areas with water. Remove contaminated clothing, jewelry, and shoes. Wash/clean items before reuse. Seek medical attention for persistent skin pain or irritation. For additional advice call the medical emergency number on this SDS or your poison center or doctor.
Ingestion :	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/effe	cts, acute and delayed
Potential acute health effects	
Eye contact :	Causes serious eye irritation.

Inhalation: Exposure to airborne concentrations above statutory or recommended exposure
limits may cause irritation of the nose, throat and lungs. Repeated or prolonged
overexposure may result in chronic health effects.Skin contact: No known significant effects or critical hazards.

Ingestion : Over-exposure by ingestion is unlikely under normal working conditions. May be harmful if swallowed.

Over-exposure signs/symptoms

Section 4. First-aid measures

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	 Adverse symptoms may include the following: irritation shortness of breath/breathing difficulty
Skin contact	: No specific data.
Ingestion	: No specific data.

Indication of immediate med	lical 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. Decontamination measures may be necessary. Personnel and equipment must be checked and decontaminated prior to leaving the area.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Not considered to be flammable. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Non-flammable. Material will not burn.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: sulfur oxides metal oxide/oxides
Special protective actions 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. Contain and collect the water used to fight the fire for later treatment and disposal.
Special protective equipment for fire-fighters	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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Section 6. Accidental release measures

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 adverse impacts (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Put on appropriate personal protective equipment (see Section 8). Move containers from spill area. Recover the material and use it for the intended purpose. or Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Put on appropriate personal protective equipment (see Section 8). Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Use appropriate equipment to put the spilled substance in a container for reuse or disposal. Recycle to process, if possible. or Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	L	
Protective measures	-	Read label before use. Apply this product only as specified on the label. Do not handle until all safety precautions have been read and understood. Put on appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin and clothing. Do not ingest. Do not breathe vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits		
manganese sulfate		NIOSH REL (United States, 10/2016). TWA: 1 mg/m ³ , (as Mn) 10 hours. Form: Fume STEL: 3 mg/m ³ , (as Mn) 15 minutes. Form: Fume ACGIH TLV (United States, 3/2020). TWA: 0.1 mg/m ³ , (as Mn) 8 hours. Form: Inhalable		
		fraction TWA: 0.02 mg/m³, (as Mn) 8 hours. Form: Respirable fraction OSHA PEL (United States, 5/2018).	e	
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Appropriate engineering

Section 8. Exposure controls/personal protection

CEIL: 5 mg/m³, (as Mn)

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures,

controls	local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
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 measu	
Contact your personal prot intended purpose.	ective equipment manufacturer to verify the compatibility of the equipment for the
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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Recommended: Contact your personal protective equipment manufacturer to verify the compatibility of the equipment for the intended purpose.
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	 Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. For U.S. work sites where respiratory protection is required, ensure that a respiratory protection program meeting 29 CFR 1910.134 requirements is in place.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance		
Physical state	: Liquid.	
Color	: Brown. [Transparent]	
Odor	: Mild.	
Odor threshold	: Not available.	
рН	: 5 to 6	
Melting point/freezing point	: Not available.	
Boiling point, initial boiling point, and boiling range	: Not available.	
Flash point	: Not available.	
Evaporation rate	: Not available.	
Flammability	: Not available.	
Lower and upper explosion limit/flammability limit	: Not available.	
Vapor pressure	: Not available.	
Relative vapor density	: Not available.	
Relative density	: Not available.	
Density	: 1.18 g/cm ³	
Bulk density	: 9.85 lb/gal	
Solubility in water	: Soluble.	
Partition coefficient: n- octanol/water	: Not applicable.	
Auto-ignition temperature	: Not available.	
Decomposition temperature	: Not available.	
Viscosity	: Not available.	
Particle characteristics		
Median particle size	: Not applicable.	

Section 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.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity **Product/ingredient name** Result **Species** Dose **Exposure** LD50 Oral Rat 2150 mg/kg manganese sulfate _ **Conclusion/Summary** : May be harmful if swallowed. Irritation/Corrosion Not available. **Conclusion/Summary** Skin : No known significant effects or critical hazards. **Eyes** : Causes serious eye damage. : Inhalation of the spray or mist may produce irritation of respiratory tract. Respiratory **Sensitization** Not available. **Conclusion/Summary** Skin : No known significant effects or critical hazards. Respiratory : No known significant effects or critical hazards. **Mutagenicity** Not available. **Conclusion/Summary** : No known significant effects or critical hazards. Carcinogenicity Not available. **Conclusion/Summary** : No known significant effects or critical hazards. **Classification Product/ingredient name** IARC **NTP** manganese sulfate

Reproductive toxicity

Not available.

Conclusion/Summary : No known significant effects or critical hazards.

Teratogenicity

Not available.

Conclusion/Summary : No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name		Route of exposure		
manganese sulfate	Category 2	-	-	

Aspiration hazard

Not available.

ACGIH

A4

Section 11. Toxicological information

Information on the likely routes of exposure	1	Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects	5	
Eye contact	:	Causes serious eye irritation.
Inhalation	:	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. Repeated or prolonged overexposure may result in chronic health effects.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	Over-exposure by ingestion is unlikely under normal working conditions. May be harmful if swallowed.
Symptoms related to the phy	<u>/sic</u>	al, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: irritation shortness of breath/breathing difficulty
Skin contact		No specific data.
Ingestion		No specific data.
.		
	ts a	and also chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	•	Acute or intermediate exposure to excess manganese affects the respiratory system and the central nervous system. Inflammation of the lungs may occur after acute toxic inhalation. "Manganese pneumonia" has been reported in mine workers with clinical signs of alveolar inflammation, marked dyspnea, shallow respiration, facial cyanosis and an increased susceptibility to infection. Acute renal failure, abdominal pain, and mild methemoglobinemia have been reported following the ingestion of manganese-containing products.
Potential delayed effects	:	See below.
<u>Long term exposure</u>		
Potential immediate effects	:	See above.
Potential delayed effects	:	Inhalation of large quantities of manganese containing dust over many years may result in damage to the central nervous system, with symptoms of sleepiness, tremors and weakness in the legs, slurred speech, emotional disturbances, loss of balance, and in more advanced cases, an irreversible condition with symptoms similar to Parkinsons or Lou Gehrig's disease, including a mask-like facial expression, spastic gait, tremors, slurred speech, fatigue, anorexia, apathy, and inability to concentrate. The neurologic disorder that develops is known as "manganism". A syndrome may develop with symptoms of compulsive behavior, emotional volatility and hallucinations. High levels of manganese in the blood may increase anemia by interfering with iron absorption. Iron deficiency may increase an individual's susceptibility to manganese. Studies suggest that populations at risk of adverse effects due to manganese exposure are infants, and those with existing iron deficiency.
Potential chronic health effe	ect	<u>S</u>
Not available.		
Conclusion/Summary	:	May cause damage to organs through prolonged or repeated exposure if inhaled.

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Section 11. Toxicological information

General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

	(J		Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
manganese sulfate	2150	N/A	N/A	N/A	N/A

Other information

: Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure	
manganese sulfate	Acute EC50 25700 µg/l Marine water	Algae - Phaeodactylum tricornutum	96 hours	
	Acute EC50 8.28 mg/l Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute LC50 0.15 mg/l Fresh water	Crustaceans - Canthocamptus sp Larvae	48 hours	
	Acute LC50 3.32 mg/l Fresh water	Fish - Oncorhynchus mykiss - Embryo	96 hours	
	Chronic NOEC 1270 µg/l Fresh water	Fish - Pimephales promelas - Egg	28 days	

Conclusion/Summary

: May be harmful to the environment if released in large quantities. May cause long-term adverse effects in the aquatic environment.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

<u>Mobility in soil</u>

Other adverse effects

Soil/water partition : Not available. coefficient (Koc)

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : Read label before use. Follow disposal instructions on label. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Triple rinse containers with water and add the rinse water to the spray tank. Disposal should be in accordance with applicable regional, national and local laws and regulations. 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.

Section 14. Transport information

	-			
	TDG	DOT	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Marine pollutant	No.	No.	No.	No.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

Canadian lists

Canadian NPRI

: The following components are listed: manganese (and its compounds)

CEPA Toxic substances

: None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.

Section 15. Regulatory information

•		-
Taiwan	1	Not determined.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	Not determined.
Viet Nam	:	Not determined.
U.S. Federal regulations	:	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Air Act Section 112(b) Hazardous Air Pollutants	1	Listed
(HAPs)		
Clean Air Act Section 602	:	Not listed
Class I Substances		
Clean Air Act Section 602	:	Not listed
Class II Substances		
DEA List I Chemicals (Precursor Chemicals)	÷	Not listed
DEA List II Chemicals	:	Not listed
(Essential Chemicals)		
<u>SARA 302/304</u>		

Composition/information on ingredients

No products were found.

SARA 311/312

Classification

: EYE IRRITATION - Category 2A

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Composition/information on ingredients

Name	%	Classification
manganese sulfate	10 - 15	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

<u>SARA 313</u>

	Product name	CAS number	%
Form R - Reporting requirements	manganese sulfate	7785-87-7	10 - 15
Supplier notification	manganese sulfate	7785-87-7	10 - 15

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: None of the components are listed.
Pennsylvania	: The following components are listed: MANGANESE COMPOUNDS
<u>California Prop. 65</u>	

WARNING: This product can expose you to cadmium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 9/6/2022
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Version	: 2
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals HPR = Hazardous Products Regulations IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

Procedure used to derive the classification

Classification	Justification
	Weight of evidence
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

Indicates information that has changed from previously issued version.

Notice to reader

Supply chain partners must ensure they pass this SDS, and all other relevant safety information to their customers.

DISCLAIMER AND LIMITATION OF LIABILITY

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FURTHERMORE, THE RECIPIENT ASSUMES ALL RISK IN CONNECTION WITH THE USE OF THE MATERIAL. THE RECIPIENT ASSUMES ALL RESPONSIBILITY FOR ENSURING THE MATERIAL IS USED IN A SAFE MANNER IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL, HEALTH, SAFETY AND SECURITY LAWS, POLICIES AND GUIDELINES. THE SUPPLIER DOES NOT WARRANT THE MERCHANTABILITY OF THE MATERIAL OR THE FITNESS OF THE MATERIAL FOR ANY PARTICULAR USE AND ASSUMES NO RESPONSIBILITY FOR INJURY OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY OR RELATED TO THE USE OF THE MATERIAL.