



LAWN I.V.

SAFETY DATA SHEET

CURRENT AS OF: 7/28/25

SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT CODE: 10009201

PRODUCT NAME: LAWN I.V.

PRODUCT USE: Fertilizer

MFR INFO: The Andersons, Inc.
PO Box 119
Maumee, OH 43537

FOR EMERGENCY: (800) 757-8951

FOR INFORMATION: (419) 893-5050

SECTION 2: HAZARDS IDENTIFICATION

HAZARD SYMBOL:



SIGNAL WORD: *WARNING*

HAZARD STATEMENT: *CAUSES SERIOUS EYE, SKIN, AND RESPIRATORY IRRITATION.*

HAZARD CLASSIFICATIONS

EYE IRRITATION

SKIN IRRITATION

SPECIFIC TARGET ORGAN TOXICITY

- *SINGLE EXPOSURE*

CATEGORY

2A

2

3

INTERPRETATION

Causes serious eye irritation

Causes skin irritation

May cause irritation to respiratory tract

PRECAUTIONARY STATEMENTS:

- *IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION*
- *WEAR PROTECTIVE GLOVES*
- *REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE*
- *AVOID BREATHING VAPORS/MISTS*
- *IF INHALED: MOVE TO FRESH AIR AND KEEP COMFORTABLE. SEEK MEDICAL ATTENTION IF UNWELL*
- *USE ONLY OUTDOORS OR IN WELL-VENTILATED AREA*
- *CALL POISON CONTROL OR SEEK MEDICAL ATTENTION IF YOU FEEL UNWELL*
- *WASH THOROUGHLY AFTER HANDLING*
- *DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT*
- *IF SWALLOWED: RINSE MOUTH AND SEEK MEDICAL ATTENTION*
- *IF IN EYES OR ON SKIN: RINSE AREA WITH PLENTY OF WATER, REMOVE CONTACT LENSES*
- *IF EYE OR SKIN IRRITATION CONTINUES: SEEK MEDICAL ATTENTION*

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<u>CHEMICAL IDENTITY</u>	<u>SYNONYM</u>	<u>CAS NUMBER</u>	<u>CONCENTRATION (%)</u>
Magnesium Sulfate Heptahydrate		10034-99-8	00-10
Manganese Sulfate Monohydrate		10034-96-5	00-10
Iron Sulfate Heptahydrate		7782-63-0	00-10
Zinc Sulfate Monohydrate		7446-19-7	00-10
Sodium Molybdate Dihydrate		10102-40-6	< 1
Boron Sodium Oxide Tetrahydrate		12280-03-04	< 1
Humic Acid		1415-93-6	< 1
Water		7732-18-5	60-80

SECTION 4: FIRST AID MEASURES

IF INHALED:	Move to fresh air, keep comfortable, seek medical attention if breathing becomes difficult or symptoms persist.
IF ON SKIN:	Wash affected areas with soap and water while removing and isolating all contaminated clothing. Seek medical attention if irritation persists or a rash appears. Wash contaminated clothing before re-use.
IF IN THE EYES:	Immediately flush with water for 15-20 minutes, remove contact lenses if present and easy to do – continue rinsing. Seek medical attention if irritation persists
IF SWALLOWED:	Rinse mouth. DO NOT INDUCE VOMITING unless directed by a medical professional. Seek medical attention if unwell.
SPECIAL TREATMENT:	None known
HEALTH HAZARDS:	See Section 11

SECTION 5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA:	Use media suitable for surrounding fire. No special media required.
SPECIFIC FIRE HAZARDS:	When heated to decomposition, this product will emit toxic oxides/fumes, and sulfides.
SPECIAL FIREFIGHTING PROCEDURES:	Wear full protective clothing and positive-pressure self-contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

- SPILL / RELEASE PROCEDURES:** Contain material and place in containers for use as intended, or discard according to Federal, State and Local regulations.
- ENVIRONMENTAL PRECAUTIONS:** Prevent spilled material from entering storm drains or water bodies. If material enters a waterway, notify the appropriate authorities.
- PROTECTIVE EQUIPMENT:** Wear PPE according to Section 8

SECTION 7: HANDLING AND STORAGE

Wash hands after handling material. Do not eat, drink or smoke while handling the material. Do not breathe vapors/mists. Not intended for human consumption. Do not store with food or feedstuffs. Store in a cool, dry, well-ventilated area away from incompatible materials.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTIONEXPOSURE LIMITS:

The following constituents are the only constituents of the product, which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

<u>HAZARDOUS COMPONENT</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Ferrous Sulfate		1 mg/m ³ (TWA) 1 mg/m ³ (TWA) (NIOSH)
Manganese Compounds	5 mg/m ³ (Ceiling)	0.2mg/m ³ (TWA)

PERSONAL PROTECTIVE EQUIPMENT / PROTECTION MEASURES / CONTROLS:

- RESPIRATORY PROTECTION:** NIOSH approved respirator, if required
- EYE PROTECTION:** Safety glasses with sideshields, goggles, or faceshield
- SKIN PROTECTION:** Appropriate for the task. Impervious and compatible with material
- VENTILATION:** Use with adequate ventilation

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	Brown solution with earthy odor
pH:	~ 4.50
MELTING POINT:	Not applicable
BOILING POINT:	Not available
FLASH POINT:	Not flammable
EVAPORATION RATE:	Not available
FLAMMABLE LIMITS:	Not applicable
VAPOR PRESSURE:	Not available
VAPOR DENSITY:	Not available
SPECIFIC GRAVITY:	~ 1.177
SOLUBILITY (IN WATER):	Soluble
PARTITION COEFFICIENT:	Not available
AUTOIGNITION TEMP:	Not available
DECOMPOSITION TEMP:	Not available
ODOR THRESHOLD:	Not available
VISCOSITY:	Not available

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Product is stable.

CONDITIONS TO AVOID: Heat

INCOMPATIBILITY: Strong acids, bases, and oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Toxic oxides/fumes, and sulfides.

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS: Causes serious eye, skin, and respiratory irritation.

CARCINOGENICITY: None of the ingredients are known / listed carcinogens.

INGREDIENT TOXICITY RANGES:

ORAL: > 57 mg/kg (zinc sulfate) – 305 mg/kg (manganese sulfate)

DERMAL: > 155 mg/kg (ferrous sulfate)

SECTION 12: ECOLOGICAL INFORMATION

Long term degradation products may arise. Products of degradation are not expected to be hazardous.

SECTION 13: DISPOSAL CONSIDERATIONS

Use product for intended purpose where possible. Dispose of in accordance with all national, regional / state, and local regulations.

SECTION 14: TRANSPORT INFORMATION

This product is not regulated as a transportation hazard.

SECTION 15: REGULATORY INFORMATION**US FEDERAL REGULATIONS**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304: This material does not contain any components with a section 304 EHS RQ.

SARA 311 / 312: Acute Health Hazard

SARA 313: The following components are subject to reporting levels established by SARA Title III, Section 313:

CHEMICAL NAME	CAS No.	% BY WEIGHT
Manganese Compounds		
Zinc Compounds		
Zinc Sulfate	7446-20-0	

CERCLA (RQ):	CHEMICAL NAME	CAS No.	REPORTABLE QTY (lbs)
	Manganese Compounds		No RQ

TSCA			
Chemical Name	CAS No.	US TSCA Inventory Listing	US TSCA Inactive / Active Designation
Manganese Sulfate	7785-87-7	Present	Active
Magnesium Sulfate	7487-88-9	Present	Active
Zinc Sulfate	7733-02-0	Present	Active
Iron Sulfate	7720-78-7	Present	Active
Molybdate (MoO4 ²⁻), sodium (1:2)	7631-95-0	Present	Active
Boron Sodium Oxide	12008-41-2	Present	Active
Humic Acids	1415-93-6	Present	Active

US STATE REGULATIONS

RIGHT-TO-KNOW:	CHEMICAL NAME	CAS No.	States
	Manganese Compounds		CA, MA, MN, NJ, PA
	Manganous Sulfate		CA, MN, NJ, PA
	Zinc Sulfate		MA, NJ, PA

CALIFORNIA PROP 65: No requirements

SECTION 16: OTHER INFORMATION

NFPA RATINGS:

HEALTH	2
FLAMMABILITY	0
INSTABILITY	0

HMIS RATINGS:

HEALTH	2
FLAMMABILITY	0
INSTABILITY	0

PREPARATION & VERSION INFORMATION

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