

SAFETY DATA SHEET

DATE PREPARED: 08/19/26

CURRENT AS OF: 8/20/26

SECTION 1: PRODUCT / SUPPLIER IDENTIFICATION

PRODUCT CODE:

PRODUCT NAME: Nuvano BoMZ

PRODUCT USE: Fertilizer

MFR INFO:

FOR EMERGENCY: (800) 424-9300 (within the USA)
(202) 483-7616 (outside the USA)
FOR INFORMATION: (561) 516-5278

SECTION 2: HAZARDS IDENTIFICATION

HAZARD SYMBOLS / STATEMENTS:



DANGER CAUSES SERIOUS EYE DAMAGE AND SEVERE SKIN BURNS. HARMFUL IF SWALLOWED OR INHALED. CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE. MAY BE CORROSIVE TO METALS.

HAZARD CLASSIFICATIONS:

CATEGORY

INTERPRETATION

EYE DAMAGE

1

Causes serious eye damage

SKIN IRRITATION

1A

Causes severe skin burns

ACUTE TOXICITY, ORAL

4

Harmful if swallowed

ACUTE TOXICITY, INHALATION

4

Harmful if inhaled

SPECIFIC TARGET ORGAN TOXICITY

- REPEATED EXPOSURE

3

Causes damage to organs through prolonged or repeated exposure

CORROSIVE TO METALS

1

May be corrosive to metals.

PRECAUTIONARY STATEMENTS:

- STORE LOCKED UP
- WEAR PROTECTIVE GLOVES AND CLOTHING
- REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE
- DO NOT BREATHE VAPORS/MISTS
- IF INHALED: MOVE TO FRESH AIR AND KEEP COMFORTABLE. SEEK MEDICAL ATTENTION IF YOU ARE UNWELL OR IRRITATION PERSISTS
- 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, CALL POISON CONTROL AND SEEK MEDICAL ATTENTION
- IF IN EYES OR ON SKIN: RINSE AREA WITH PLENTY OF WATER, REMOVE CONTACT LENSES; AFTER RINSING SEEK MEDICAL ATTENTION
- IF 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>
Manganese Sulfate		10034-96-5	00-10
Zinc Sulfate	Zincteral	7446-20-0	10-20
Sulfuric Acid	Oil of vitriol	7664-93-9	00-10

SECTION 4: FIRST AID MEASURES

IF INHALED:	Move to fresh air and keep comfortable, seek medical attention if unwell.
IF ON SKIN:	Wash affected areas with soap and water. Seek medical attention if irritation persists. 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. Call POISON CONTROL and seek medical attention.
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. Store locked up in a cool, dry, well-ventilated area away from incompatible materials.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:

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

<u>HAZARDOUS COMPONENT</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Manganese Compounds	5 mg/m ³	0.2mg/m ³
Sulfuric Acid	1 mg/m ³	

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:	Purple solution with slightly acidic odor
pH:	~ 1.80
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:	~1.307
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 bases, oxidizers, soft metals and alloys.
HAZARDOUS DECOMPOSITION PRODUCTS:	Toxic oxides/fumes, and sulfides.

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS: Causes serious eye damage and severe skin burns. Harmful if swallowed or inhaled. May cause damage to the lungs or liver through repeated exposure.

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

INGREDIENT TOXICITY RANGES:

ORAL: > 57 mg/kg (zinc sulfate) – 2140 mg/kg (sulfuric acid)

DERMAL: > 2,000 mg/kg (zinc sulfate)

SECTION 12: ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects. 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

DOT:	This product is regulated as a transportation hazard
UN NUMBER:	UN3264
PROPER SHIPPING NAME:	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS SULFURIC ACID)
TRANSPORT HAZARD CLASS:	8
PACKING GROUP:	III

SECTION 15: REGULATORY INFORMATION

SARA 311/312:	ACUTE, CHRONIC
SARA 313:	Sulfuric Acid Zinc Compounds Manganese Compounds Zinc Sulfate
SARA 302:	Sulfuric Acid (1000 lb)
REPORTABLE QUANTITY:	Sulfuric Acid (1000 lb) Zinc Compounds (No RQ) Manganese Compounds (No RQ)
RIGHT-TO-KNOW:	Sulfuric Acid (MA, NJ, PA) Zinc Compounds (CA, IL, MA, NJ, PA) Zinc Sulfate (MA, NJ, PA) Manganese Compounds (CA, MA, MN, NJ, PA) Manganous Sulfate (CA, MN, NJ, PA)

SECTION 16: OTHER INFORMATION

NFPA RATINGS:	HEALTH	2
	FLAMMABILITY	1
	INSTABILITY	0
HMIS RATINGS:	HEALTH	2
	FLAMMABILITY	1
	INSTABILITY	0

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