

12-40-0-1ZN NPK Fertilizer

SAFETY DATA SHEET (SDS)

OSHA Haz Com Standard 29 CFR 1910.1200. Prepared to GHS Rev03.



United Suppliers Inc.

SECTION 1: Identification

1.1. Product identifier

Product Form : Solid Granule

Product Name: : 12-40-0-1Zn

1.2. Recommended use / restrictions of use

: Agricultural fertilizer. No restrictions.

1.3. Details of the supplier of the data sheet

: United Suppliers Inc.
Henry, IL 61537
T 1-309-364-2361

1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

: Skin irritant (H315), eye irritant (H320), respiratory irritant (H335)

2.2. Label elements

Hazard pictograms



GHS07

Signal word

: Warning

Hazard statements

: H315 – Causes skin irritation
H320 – Causes eye irritation
H335 – May cause respiratory irritation

Precautionary statements

: P280 – Wear protective gloves/eye protection
P305+P351 – If in eyes: Rinse cautiously with water for several minutes
P337+P313 – If eye irritation persists: Get medical advice/attention

2.3. Other hazards

: No additional hazards

2.4. Unknown acute toxicity

: No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Ingredient name	Product identifier (CAS No.)	%
Monoammonium Phosphate	7722-76-1	60 - 65
Ammonium Sulfate	7783-20-2	25 - 30
Calcium Sulfate Dihydrate	10101-41-4	8 - 10
Zinc Oxysulfate	1314-13-2	1

3.2. Mixture

: Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove to fresh air and keep at rest in a comfortable position for breathing. If irritation persists, seek medical attention.
- First-aid measures after skin contact : Wash with water and soap. If irritation persists, seek medical attention.
- First-aid measures after eye contact : Flush eyes with running water for several minutes. If irritation persists, seek medical attention.
- First-aid measures after ingestion : Give large amounts of water. If irritation persists, seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray, dry chemical, carbon dioxide, sand.
- Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

: Material will not burn: However, material undergoes decomposition at elevated temperatures to release toxic and combustible gases.

5.3. Advice for firefighters

- Firefighting instructions : Material will not burn. Use extinguishing media appropriate for the surrounding materials.
- Protection during firefighting : Wear respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

- Protective equipment : Wear gloves and cover skin.
- Emergency procedures : None required.

6.2. Environmental precautions

: Prevent entry to sewers and public surface waters.

6.3. Methods and material for containment and cleaning up

- Clean-up methods : Use mechanical means. Store material in suitable containers for recycle/disposal.

6.4. Reference to other sections

: See Section 7 for safe handling information.
See Section 8 for PPE information.
See Section 13 for disposal information.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Safe handling precautions : Avoid contact with skin and eyes. After handling, wash hands thoroughly with soap and water. Avoid breathing dust. Wash before eating and drinking.
- Fire/explosion precautions : No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a dry, cool, and well-ventilated area. Protect from weather.
- Incompatible materials : Slightly reactive with oxidizing agents, metals, alkalis, and moisture.

7.3. Specific end use(s)

: No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

- ACGIH Threshold Limit Value : 10 mg/m³ as inhalable dust.
- OSHA Permissible Exposure Limit : Not established.

8.2. Exposure controls

- Appropriate engineering controls : If dust is generated during handling, use adequate ventilation to keep exposure to airborne dust level below the threshold limits.
- Personal protective equipment : Hand, skin, eye, respiratory (if needed).
- Hand protection : Wear protective gloves. Glove material: Any.
- Eye protection : Safety glasses w/ side shields.
- Skin and body protection : Wear long sleeved clothing and other suitable clothing to prevent skin exposure.
- Respiratory protection : Wear NIOSH approved dust respirator if dust level is above threshold limit.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid granule	Flammability	: Not flammable
Color	: Black / dark gray	Flash point	: Not applicable
Odor	: Slight phosphate	Explosive limit (upper)	: No data available
Odor threshold	: 17 ppm (Ammonia)	Explosive limit (lower)	: No data available
Boiling point	: Decomposes	Auto ignition temp.	: No data available
Melting point	: 155°C (311°F)	Decomposition temp.	: No data available
Freezing point	: No data available	Partition coefficient	: No data available
Vapor pressure	: Not applicable	Viscosity, kinematic	: Not applicable
Vapor density	: Not applicable	Viscosity, dynamic	: Not applicable
pH	: 5.2		
Specific gravity	: 1.03		
Bulk density	: 64 lbs/ft ³		
Solubility	: Soluble in water		
Evaporation rate	: Not applicable		

9.2. Other information

: No further information available.

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SECTION 10: Stability and reactivity

- 10.1. Reactivity : No further relevant information available.
- 10.2. Chemical stability : The product is stable under normal ambient conditions.
- 10.3. Possibility of hazardous reactions : None.
- 10.4. Conditions to avoid : No further relevant information available.
- 10.5. Incompatible materials : Slightly reactive with oxidizing agents, metals, alkalis, and moisture.
- 10.6. Hazardous decomposition products : Avoid contact with moisture – slow hydrolysis will produce corrosive acids.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
- Routes of exposure : Skin contact, eye contact, inhalation, ingestion.
- Skin corrosion/irritation : Causes skin irritation.
- Eye damage/irritation : Causes eye irritation.
- Acute toxicity : Not classified.
- Carcinogenicity : Not classified.
- Reproductive toxicity : Not classified.
- LD50 oral rat : 3000 mg/kg (Rat)
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes eye irritation.
- Symptoms/injuries after inhalation : May cause respiratory irritation.
- NTP (*National Toxicology Program*) : Substance is not listed.
- IARC (*International Agency for Research on Cancer*) : Substance is not listed.

SECTION 12: Ecological information

- 12.1. Toxicity : No testing data available.
- 12.2. Persistence and degradability : Aquatic toxicity: will release ammonium ions in water by hydrolysis. Ammonia is toxic to aquatic organisms. Avoid spills/releases to surface waters.
- 12.3. Bioaccumulative potential : No data available.
- 12.4. Mobility in soil : Non-persistent when applied using normal agricultural practices.
- 12.5. Other adverse effects : No further relevant information available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Recycle excess product if at all possible. Avoid sewage and landfill disposal.

Waste containers : Do not use metal waste containers.

13.2. Reference to other sections

: See Section 8 for exposure control information.

SECTION 14: Transport information

14.1. Transport information

UN-Number : None

DOT, ADR, ADN, IATA : Non-regulated material

IMDG : Not regulated

UN proper shipping name : Not regulated for transportation

Transport hazard class : Not regulated

Class – DOT, ADR, ADN, IATA, : Non-regulated material

IMDG

Packing group – DOT, ADR, IMDG, : Non-regulated material

IATA

Environmental hazards: Marine pollutant IMDG : Not classified as a marine pollutant

Transport in bulk according to Annex II of MARPOL 73/78 and IBC code : Not applicable

Special precautions for user : None

SECTION 15: Regulatory information

15.1. US Federal regulations

SARA 302 (EHS) : Product is not listed.

SARA 313 (TRI) : Zinc compounds (1%).

15.2. International regulations

Canada : Product is listed on Domestic Substances List.

European Union : Product is not listed.

15.3. US State regulations

: None.

SECTION 16: Other information

16.1. Other information

Date of preparation/last revised : 11/14/2014

For further health, safety, or environmental information on this product, contact : United Suppliers Inc.
Loss Control Dept.
T 1-641-858-2341

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