

16-24-0 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: : 16-24-0 (SulPlex)

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.)	%
Ammonium Sulfate	7783-20-2	50 - 55
Monoammonium Phosphate	7722-76-1	45 - 50
Zinc Oxysulfate	1314-13-2	1

3.2. Mixture

: Not applicable

16-24-0 NPK Fertilizer

SAFETY DATA SHEET (SDS)

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



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.

16-24-0 NPK Fertilizer

SAFETY DATA SHEET (SDS)

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



United Suppliers Inc.

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.

16-24-0 NPK Fertilizer

SAFETY DATA SHEET (SDS)

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



United Suppliers Inc.

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.

16-24-0 NPK Fertilizer

SAFETY DATA SHEET (SDS)

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



United Suppliers Inc.

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, IMDG : Non-regulated material

UN proper shipping name : Not regulated for transportation

Transport hazard class : Not regulated

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

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

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 311-312 (Tier II) : Applicable.

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 : 2/5/2015

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

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge and belief at the date of its publication. The information is designed only as guidance for safe handling, use, storage, transportation, and disposal, and is not to be considered a warranty (express, implied, merchantability or fitness for any particular purpose) or quality specification. The information relates only to the specific material designated therein.