

# Guizhou Zerophos Technology Co., Ltd.



## Material Safety Data Sheet

**Trade Name:** Ammonium sulphate feed grade

**Registration No.:** None

**Version No.:** 1

SECTION 1	CHEMICAL PRODUCT AND COMPANY INFORMATION
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**Chemical Type:** Salt

Preparation trade name : Ammonium Sulphate

Manufacturer : Guizhou Zerophos Technology Co., Ltd.

Usage : feed additives

Address : 612, Unit 1, Block B, Jinli Building,  
89 Duyun Road, Guiyang 550002,  
Guizhou Province, P. R. China.

Phone number : +86-851-84851276

Fax number : +86-400-8266-163 ext. 02238

E-mail : [zerophos@zerophos.com](mailto:zerophos@zerophos.com)

SECTION 2	COMPOSITION/INFORMATION ON INGREDIENTS
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**Chemical Name and Synonyms:** Ammonium sulphate

**C.A.S. No. :** 7783-20-2

**Chemical Formula:**  $(\text{NH}_4)_2\text{SO}_4$

**Hazardous:** None

**Non-Hazardous:** Nuisance Dust Not available

SECTION 3	HAZARDS IDENTIFICATION
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**Ingestion:** Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. It presents little toxicity unless large amounts are ingested, in which case, vomiting and diarrhea are likely.

**Inhalation:** Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.

**Eye Contact:** Causes irritation, redness, and pain.

**Skin Absorption:** Not considered a normal route of entry.

**Skin Contact:** Causes irritation to skin. Symptoms include redness, itching, and pain.

**Effects of Overdose:** None listed.

SECTION 4	FIRST AID MEASURES
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**Ingestion:** Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

**Eyes:** Flush eyes with running water for 15 minutes. If condition persists, seek medical attention.

**Skin:** Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. Seek medical attention if condition persists.

SECTION 5	FIRE FIGHTING MEASURES
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**Fire:**

Not considered to be a fire hazard. Flammable ammonia gas may be released in a fire.

**Explosion:**

May explode if mixed with oxidizers, such as potassium nitrate, potassium nitrite, and potassium chlorate.

**Fire Extinguishing Media:**

Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire exposed containers cool.

**Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

**SECTION 6**

**ACCIDENTAL RELEASE MEASURES**

**Environmental Precautions:** Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

**SECTION 7**

**HANDLING AND STORAGE**

**Precautions to be taken in handling and storing:**

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

**SECTION 8**

**EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Airborne Exposure Limits:** None established.

**Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

**Personal Respirators (NIOSH Approved):**

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerin, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:**

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Eye Protection:**

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

**SECTION 9**

**PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Fine white granules or crystals.

**Odor:** Slight odor of ammonia.

**Solubility:** Appreciable in water. 41.22 g/100 g water @ 25C (77F)

**Density:** 1.77 @ 50C(122F)

**pH:** 5.5 (0.1M aqueous solution)

**% Volatiles by**

0

**volume @ 21C (70F):**

**Boiling Point:** Not applicable.

**Melting Point:** 235 - 280C (455 - 536F) Decomposes.

**Vapor Density**

No information found.

**(Air=1):**

**Vapor Pressure (mm Hg):** No information found.

**Hg):**

**Evaporation Rate (BuAc=1):** No information found.

**(BuAc=1):**

<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
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**Stability:** Stable under ordinary conditions of use and storage. Maintain at temperatures below 513C (955F).

**Hazardous Decomposition Products:** May emit ammonia, oxides of sulfur, oxides of nitrogen, and oxides of carbon.

**Hazardous Polymerization:**

Will not occur.

**Incompatibilities:**

Sodium hypochlorite, potassium plus ammonium nitrate, potassium chlorate, potassium nitrite, and sodium-potassium powder plus ammonium nitrate, and other strong oxidizers.

**Conditions to Avoid:** Heat, incompatibles.

<b>SECTION 11</b>	<b>TOXICOLOGY INFORMATION</b>
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**Oral rat LD50:** 2840 mg/kg

Investigated as a mutagen.

**Cancer Lists**

<b>Ingredient</b>	<b>NTP Carcinogen</b>
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**Known**

**Anticipated**

**IARC Category**

Ammonium Sulfate  
(7783-20-2)

No

No

None

<b>SECTION 12</b>	<b>ECOLOGICAL INFORMATION</b>
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None listed.

<b>SECTION 13</b>	<b>DISPOSAL CONSIDERATIONS</b>
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**Waste Disposal Procedures:** If disposal is necessary, consult local state and federal regulations.

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.

<b>SECTION 14</b>	<b>TRANSPORT INFORMATION</b>
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**Shipping name:** Not regulated by D.O.T.

**Hazard Class:** None **C.A.S. Number:** (7783-20-2)

**Reportable Quantity (RQ):** None **D.O.T. Number:** None

**Labels Required:** None **Haz Waste No:** None

**Placard:** None **EPA Regist No:** None

<b>SECTION 15</b>	<b>REGULATORY INFORMATION</b>
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**Chemical Inventory Status- Part 1**

<b>Ingredient</b>	<b>TSCA</b>	<b>EC</b>	<b>Japan</b>	<b>Australia</b>
Ammonium Sulfate (7783-20-2)	Yes	Yes	Yes	Yes

**Chemical Inventory Status – Part 2**

<b>Ingredient</b>	<b>Canada</b>	<b>Korea</b>	<b>DSL</b>	<b>NDS L</b>	<b>Phil.</b>
Ammonium Sulfate (7783-20-2)	Yes	Yes	Yes	Yes	Yes

Federal, State & International Regulations - Part 1

Ingredient	SARA 302		SARA 313	
	RQ	TPQ	List	Chemical Catg.
Ammonium Sulfate (7783-20-2)	No	No	No	No

Federal, State & International Regulations - Part 2

Ingredient	CERCLA	RCRA 261.33	TSCA 8(d)
Ammonium Sulfate (7783-20-2)	No	No	No
<b>Chemical Weapons Convention:</b>	<b>No</b>	<b>TSCA 12(b): No</b>	<b>CDTA: No</b>
<b>ARA 311/312:</b>	<b>Acute: Yes</b>	<b>Chronic: No</b>	<b>Fire: No</b>
<b>Pressure: No</b>	<b>Reactivity: No</b>	<b>(Pure / Solid)</b>	

**Australian Hazchem Code:** None allocated

## **Poison Schedule:**

## WHMIS:

This SDS has been prepared according to the hazard criteria of the Controlled Product Directive (CPD) and the SDS contains all of the information required by the CPD.

(S.R.) and the SRS contains all of the information required by the S.R.

**NEPA Ratings:**

## NFPA Ratings:

Health: 2

Flammability: 0

Reactivity: 0

### Label Hazard Warning:

WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY BE HARMFUL IF SWALLOWED

### **Label Precautions:**

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Avoid breathing dust.

Keep container closed.

Use only with adequate ventilation.

### Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. In all cases, get medical attention.

**Other:**

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## MSDS Version Number: 1

**Date:** December 1, 2024