

MATERIAL SAFETY DATA SHEET

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SECTION 1: CHEMICAL IDENTIFICATION

Code: PC0902-500G Name: Ammonium Sulfate

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: CAS NO.: EC NO.: %
Ammonium Sulfate 7783-20-2 231-964-1 95-100

Synonyms: Ammonium sulphate, diammonium sulphate

SECTION 3: HAZARDS IDENTIFICATION

GHS Classification

Skin irritation – Category 2 Eye irritation – Category 2

GHS Label elements, including precautionary statements



Signal word: Warning

Hazard statements

H315 Causes skin irritation

H319 Causes serious eye irritation H335 May cause respiratory irritation

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Precautionary statements

P261 Avoid breathing dust, fume, gas, mist, vapors or spray.

Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P302 + P352 If on skin, wash with plenty of soap and water if contact with skin.
P304 + P340 If inhaled, remove victim to fresh air and keep at rest in a position

comfortable for breathing.

SECTION 4: FIRST-AID MEASURES

In case of eye contact, rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

In case of skin contact, wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

In case of inhalation, move to fresh air. If not breathing, give artificial respiration.

In case of ingestion, clean mouth with water and later drink plenty of water.

SECTION 5: FIRE FIGHTING MEASURES

Not flammable.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Use water spray, regular foam, dry chemical or carbon dioxide.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH and full protective gear.

Hazardous decomposition products formed under fire conditions: Nitrogen oxides, sulphur oxides, ammonia

Flash point:

Explosion data – sensitivity to mechanical impact:

Explosion data – sensitivity to static discharge:

Not sensitive.

Not sensitive.

SECTION 6: ACCIDENTAL RELEASE MEASURES

For personal protection, use personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

For environmental precautions, prevent further leakage or spillage if safe to do so.

For cleaning up, avoid dust formation. Pick up and transfer to properly labeled containers for disposal according to local regulations. Ventilate area and wash spill site after material pickup is complete.



SECTION 7: HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapors/dust.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible with strong oxidizing agents and strong bases.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face protection Use face shield and safety goggles with side-shields.

approved respiratory protection should be worn at all time. In case of exposure to high airborne contaminant concentrations, positive-pressure supplied air respirators may be required. Respiratory protection must be provided in accordance with current local

regulations.

Skin and body protection Wear protective gloves/ clothing.

Use engineering measures such as showers, eyewash stations and ventilation system.

Handle in accordance with good industrial hygiene and safety practice

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White

Physical state: Crystalline powder

Odor:
Odor threshold:
Density:
No information available

Melting point: 280°C

Freezing point:

Initial Boiling point:

No information available
No information available
No information available

Flash point: Not applicable Autoignition temperature: No data available

Decomposition temperature: No information available

Upper Flammability limit in air:

No data available
Lower Flammability limit in air:

No data available

Explosive properties:

Oxidizing properties:

No information available
No information available
No information available

Partition coefficient (n-octanol/water):

Vapor pressure:

Vapor density:

Evaporation rate:

Specific gravity:

No data available
No data available
No data available
No data available

Viscosity: No information available



SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Materials to avoid:

Hazardous decomposition products:

Hazardous polymerization:

Conditions to avoid:

Strong oxidizing agents and strong bases.

Nitrogen oxides, ammonia and sulphur oxides.

Hazardous polymerization does not occur.

None known based on information supplied.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:

Causes skin, eye and respiratory tract irritation.

Oral LD50: Rat – 2000 mg/kg Inhalation LC50: No data available Dermal LD: No data available

Chronic toxicity:

No known effect based on information supplied

Target organ effects: Eyes, skin, respiratory system.

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Harmful to aquatic organisms.

LC50: Fish – Leuciscus idus – 460-1000 mg/L - 96 hrs

Fish – Cyprinus carpio – 18 mg/L – 96 hrs Fish – Brachydanio rerio – 250 mg/L – 96 hrs Fish – Pimephales promelas – >100 mg/L – 96 hrs

EC50: Daphnia magna (water flea) & other aquatic invertebrates – 14 mg/L – 48 hrs

Daphnia magna (water flea) & other aquatic invertebrates – 423 mg/L – 24 hrs

<u>Partition coefficient</u> <u>Unit</u> -5.1 25°C <u>Unit</u> Log Pow

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose waste material in accordance with all federal, state and local environmental regulation. For contaminated packing, dispose as waste material.



SECTION 14: TRANSPORT INFORMATION DOT (US)

Not regulated.

IATA

Not regulated.

SECTION 15: REGULATORY INFORMATION

International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

U.S Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulation, Part 372:

SARA 313 threshold values of ammonium sulphate: 1.0%

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutant (HAPs) under Section 112 of the Clean Air Act Amendments of 1990.



U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico - Grade

No information available.

WHMIS Hazard Class

D2B Toxic materials



SECTION 16: OTHER INFORMATION

The information contained in this MSDS relates only to the material(s) designed and does not relate to use(s) in combination with any other material, process(es) and /or chemical reaction(s). Vivantis Technologies Sdn. Bhd. provides this information in good faith, from sources believed to be accurate; however, Vivantis assumes no liability for its accuracy or completeness, and thus shall not be held liable for any damage resulting from handling or from contact with the above product.

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