

**MATERIAL SAFETY DATA SHEET  
VIVANTIS TECHNOLOGIES SDN BHD**

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**SECTION 1: CHEMICAL IDENTIFICATION**

Catalogue Number: PC0902-500g  
Product Name: Ammonium Sulfate

Intended Use:  
For research use only. Not for use in diagnostic procedures.

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**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

**Precautionary statements**

- P261 Avoid breathing dust, fume, gas, mist, vapors or spray.
- P264 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.

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## **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: Not determined.

Explosion data – sensitivity to mechanical impact: Not sensitive.

Explosion data – sensitivity to static discharge: 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.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face protection	Use face shield and safety goggles with side-shields.
Respiratory protection	Irritation is experienced if exceeded exposure limits. NIOSH/MSHA 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:	No information available
Odor threshold:	No information available
Density:	No information available
pH:	No information available
Melting point:	280°C
Freezing point:	No information available
Initial Boiling point:	No information available
Boiling point:	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:	No information available
Oxidizing properties:	No information available
Solubility:	No information available
Partition coefficient (n-octanol/water):	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Evaporation rate:	No data available
Specific gravity:	No data available
Viscosity:	No information available

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## SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Materials to avoid:	Strong oxidizing agents and strong bases.
Hazardous decomposition products:	Nitrogen oxides, ammonia and sulphur oxides.
Hazardous polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	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 – <i>Leuciscus idus</i> – 460-1000 mg/L – 96 hrs
	Fish – <i>Cyprinus carpio</i> – 18 mg/L – 96 hrs
	Fish – <i>Brachydanio rerio</i> – 250 mg/L – 96 hrs
	Fish – <i>Pimephales promelas</i> – >100 mg/L – 96 hrs
EC50:	<i>Daphnia magna</i> (water flea) & other aquatic invertebrates – 14 mg/L – 48 hrs
	<i>Daphnia magna</i> (water flea) & other aquatic invertebrates – 423 mg/L – 24 hrs

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

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**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**

<b>TSCA</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	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

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**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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