

# Material Safety Data Sheet

Ammonium Sulphate

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Chemical product name:** Ammonium Sulphate

**Common chemical name:** Ammonium Sulphate

**Company information:** Choice Chemicals Ltd.  
Centre of City, No.235 Wuyi Road, Furong District,  
Changsha, Hunan 410011, P.R. China  
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E-mail: info@choice-chem.com

**24 hr Emergency number:** 0086 13298652316

## SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

Substances  
Synonyms : Ammonium sulphate  
Formula :  $(\text{NH}_4)_2\text{SO}_4$   
Molecular Weight : 132,14 g/mol

## SECTION 3 - HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

### Label elements:

The product does not need to be labelled in accordance with EC directives or respective national laws.

**Other hazards** - none.

## SECTION 4 - FIRST AID MEASURE

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.

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**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Flush eyes with water as a precaution.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed:**

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

**Indication of any immediate medical attention and special treatment needed:**

no data available

## SECTION 5 - FIRE AND EXPLOSION DATA

**Suitable extinguishing media**

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

**Special hazards arising from the substance or mixture**

nitrogen oxides (NO<sub>x</sub>), Sulphur oxides

**Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Further information**

The product itself does not burn.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep

in suitable, closed  
containers for disposal.

**Reference to other sections**

For disposal see section 13.

**SECTION 7 - HANDLING AND STORAGE**

**Precautions:** Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

**Storage:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**SECTION 8 - EXPOSURE CONTROLS, PERSONAL, PROTECTION****Engineering Controls:****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment****Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**      Form: crystalline  
                         Colour: colourless

**Odor:** Not available.

**Odour Threshold:** no data available

**PH :** 5,0 - 6 at 132 g/l at 25 °C

**Boiling Point:** Not available.

**Melting Point:** Melting point/range: > 280 °C - dec.

**Flash point:** no data available

**Evaporation rate:** no data available

**Flammability (solid, gas):** no data available

**Upper/lower:** no data available

**Vapour pressure:** no data available

**Vapour density:** no data available

**Relative density:** 1,77 g/cm<sup>3</sup> at 25 °C

**Water solubility:** 132 g/l at 20 °C - completely soluble

**Partition coefficient: noctanol/water:** log Pow: -5,1

**Autoignition temperature:** no data available

**Decomposition temperature:** no data available

**Viscosity:** no data available

**Explosive properties:** no data available

**Oxidizing properties:** no data available

## SECTION 10 - STABILITY AND REACTIVITY DATA

**Reactivity:** no data available.

**Chemical stability:** no data available.

**Possibility of hazardous reactions:** no data available.

**Conditions to avoid:** no data available.

**Incompatible materials:** Strong oxidizing agents, Strong bases.

**Hazardous decomposition products:** Other decomposition products - no data available.

## SECTION 11 - TOXICOLOGICAL INFORMATION

**Acute toxicity:** no data available.

**Skin corrosion/irritation:** Skin - rabbit - No skin irritation  
Skin - Human - Mild skin irritation

**Serious eye damage/eye irritation:** Eyes - rabbit - No eye irritation  
Eyes - Human - Mild eye irritation.

**Respiratory or skin sensitization:** no data available

**Germ cell mutagenicity:** no data available.

**Carcinogenicity:** IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity:** no data available.

**Specific target organ toxicity - single exposure:** no data available

**Specific target organ toxicity - repeated exposure:** no data available

**Aspiration hazard:** no data available

### Potential health effects:

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion:** May be harmful if swallowed.

**Skin:** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes:** May cause eye irritation.

### Signs and Symptoms of Exposure:

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

**Additional Information:** RTECS: BS4500000

## SECTION 12 - ECOLOGICAL INFORMATION

### Toxicity:

Toxicity to fish: LC50 - Oncorhynchus mykiss (rainbow trout) - 36,7 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates: LC50 - Daphnia magna (Water flea) - 433 mg/l - 50 h

**Persistence and degradability:** no data available.

**Bioaccumulative potential:** no data available.

**Mobility in soil:** no data available.

**Results of PBT and vPvB assessment:** no data available.

**Other adverse effects:**

Harmful to aquatic life.

no data available

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Waste treatment methods:**

**Product:**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging:** Dispose of as unused product.

## SECTION 14 - TRANSPORT INFORMATION

**UN number:**

ADR/RID: -

IMDG: -

IATA: -

**UN proper shipping name:**

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

**Transport hazard class(es):**

ADR/RID: -

IMDG: -

IATA: -

**Packaging group:**

ADR/RID: -

IMDG: -

IATA: -

**Environmental hazards:**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**Special precautions for user:**

no data available

## SECTION 15 - REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture:** no data available

**Chemical Safety Assessment:** no data available.

## SECTION 16 - OTHER INFORMATION

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