SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 *Product identifiers*

Product name: **AMMONIUM SULPHATE**

CAS-No.: **7783-20-2**

Product Number: **A65959**

1.2 *Relevant identified uses of the substance or mixture and uses advised against*

Identified uses: Laboratory chemicals, Manufacture of substances

1.3 *Details of the supplier of the safety data sheet*

Company : Philip Harris Ltd., 2 Gregory Street, Hyde, Cheshire, SK14 4HR, UNITED KINGDOM

Telephone: +44 (0)845 1200 506 Fax: +44 (0)161 367 2140

Email: enquiries@philipharris.co.uk

1.4 *Emergency telephone number*

Emergency Phone #: **+44 (0)845 1200 506**

2. HAZARDS IDENTIFICATION

2.1 *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.

2.2 *Label elements*

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

2.3 *Other hazards* – none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 *Substances*

Ammonium sulphate

Formula:	**$(NH_4)_2SO_4$**
Molecular Weight:	**132.14g/mol**
Component Concentration:	-
CAS-No.:	**7783-20-2**
EC-No.:	**231-984-1**

4. FIRST AID MEASURES

4.1 *Description of first aid measures*

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled:

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact:

Wash off with soap and plenty of water.

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.

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

no data available

4.3 *Indication of immediate medical attention and special treatment needed*

no data available

5. FIRE-FIGHTING MEASURES

5.1 *Extinguishing media*

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 *Special hazards arising from the substance or mixture*

no data available

5.3 *Precautions for fire-fighters*

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 *Further information*

The product itself does not burn.

6. ACCIDENTAL RELEASE MEASURES

6.1 *Personal precautions, protective equipment and emergency procedures*

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

6.2 *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.

6.3 *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.

6.4 *Reference to other sections*

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 *Precautions for safe handling*

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 *Conditions for safe storage, including any incompatibilities*

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

7.3 *Specific end uses*

no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 *Control parameters*

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 *Exposure 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

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. 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).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance: **Form**: Crystalline **Colour**: Colourless

b) Odour: no data available

c) Odour Threshold: no data available

d) pH: 5.0 - 6 at 132 g/L at 25 °C

e) Melting/freezing point: Melting point/range: 280 °C

f) Initial boiling point and boiling range: no data available

g) Flash point: no data available

h) Evaporation rate: no data available

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

j) Upper/lower flammability or explosive limits: no data available

k) Vapour pressure: no data available

l) Vapour density: no data available

m) Relative density: 1.77 g/cm^3 at 25 °C

n) Water solubility: 132 g/L at 20 °C

o) Partition coefficient: n-octanol/water: -5.1

p) Autoignition temperature: no data available

q) Decomposition temperature: no data available

r) Viscosity: no data available

s) Explosive properties: no data available

t) Oxidizing properties: no data available

10. STABILITY AND REACTIVITY

10.1 *Reactivity*

no data available

10.2 *Chemical stability*

Stable under recommended storage conditions.

10.3 *Possibility of hazardous reactions*

no data available

10.4 *Conditions to avoid*

no data available

10.5 *Incompatible materials*

Strong oxidizing agents, Strong bases

10.6 *Hazardous decomposition products*

Hazardous decomposition products formed under fire conditions. - nitrogen oxides (NOx), Sulphur oxides

11. TOXICOLOGICAL INFORMATION

11.1 *Information on toxicological effects*

Acute toxicity

LD50 Oral - rat - 2,840 mg/kg: Remarks: Behavioural: Somnolence (general depressed activity). Behavioural: Muscle contraction or spasticity. Lungs, Thorax, or Respiration: Other changes.

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

12. ECOLOGICAL INFORMATION

12.1 *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

12.2 *Persistence and degradability*

no data available

12.3 *Bioaccumulative potential*

no data available

12.4 *Mobility in soil*

no data available

12.5 *Results of PBT and vPvB assessment*

no data available

12.6 *Other adverse effects*

Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

13.1 *Waste treatment methods*

Product

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

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 *UN-Number*

ADR/RID: - IMDG: - IATA: -

14.2 *UN proper shipping name*

ADR/RID: NOT DANGEROUS GOODS

IMDG: NOT DANGEROUS GOODS

IATA: NOT DANGEROUS GOODS

14.3 *Transport hazard class(es)*

ADR/RID: - IMDG: - IATA: -

14.4 *Packaging group*

ADR/RID: - IMDG: - IATA: -

14.5 *Environmental hazards*

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 *Special precautions for users*

no data available

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 *Safety, health and environmental regulations/legislation specific for the substance or mixture*

no data available

15.2 *Chemical Safety Assessment*

no data available

16. OTHER INFORMATION

no data available