



SAFETY DATA SHEET

AMMONIUM SULPHATE

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Compilation date: 10/10/01

Revision date: 08/07/2016

Revision No: 2

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: AMMONIUM SULPHATE

REACH registered number(s): 01-2119455044-46-XXXX

CAS number: 7783-20-2

EINECS number: 231-984-1

Synonyms: * DIAMMONIUM SULPHATE

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

Use of substance / mixture: * PC12: Fertilizers. PC21: Laboratory chemicals. PC34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids. Flame Retardants. Textiles. Chemical manufacturing. Food Additive. Cosmetics.

1.3. Details of the supplier of the safety data sheet

Company name: Monarch Chemicals Limited

New Road

Sheerness

Kent

ME12 1LZ

United Kingdom

Tel: 01795 583333 (09:00 - 17:00 Mon-Fri)

Fax: 01795 583300

Email: sales@monarchchemicals.co.uk

1.4. Emergency telephone number

Emergency tel: 07711 009064 (Out of Hours)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: This product has no classification under CLP.

2.2. Label elements

Label elements: This product has no label elements.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

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Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: AMMONIUM SULPHATE

CAS number: 7783-20-2

EINECS number: 231-984-1

REACH registered number(s): 01-2119455044-46-XXXX

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: * Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. If irritation develops or persists seek medical attention.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If irritation develops or persists seek medical attention.

Inhalation: * Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If unconscious, check for breathing and apply artificial respiration if necessary. If symptoms develop seek medical attention.

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

Skin contact: * There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure.

Eye contact: * There may be irritation and redness. The eyes may water profusely. May cause mechanical irritation to the eyes.

Ingestion: * May cause mild irritation of the gastrointestinal tract if large quantities are ingested. Nausea and stomach pain may occur.

Inhalation: May cause irritation of the mucous membranes and respiratory system.

Delayed / immediate effects: * Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: * Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: * Use water spray to cool containers. Suitable extinguishing media for the surrounding fire should be used.

[cont...]

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5.2. Special hazards arising from the substance or mixture

Exposure hazards: * Non-combustible. The product does not support combustion. In combustion emits toxic fumes of sulphur oxides. May liberate Ammonia vapours during combustion.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: * Wear suitable protective clothing. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Remove all incompatible materials as outlined in section 10 of SDS. Do not create dust.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

6.4. Reference to other sections

Reference to other sections: * Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid the formation or spread of dust in the air. Avoid contact with the material and breathing its dust.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Avoid contact with water or humidity. Avoid incompatible materials and conditions - see section 10 of SDS.

Suitable packaging: Paper, plastic or poly-lined bags or kegs.

7.3. Specific end use(s)

Specific end use(s): No special requirement.

Section 8: Exposure controls/personal protection

8.1. Control parameters

[cont...]

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* Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	-	4 mg/m ³	-

DNEL/PNEC Values

AMMONIUM SULPHATE

Type	Exposure	Value	Population	Effect
DNEL	Dermal (repeated dose)	42.7 mg/kg/day	Workers	-
DNEL	Inhalation (repeated dose)	11.17 mg/m ³	Workers	-
DNEL	Oral (repeated dose)	6.4 mg/kg/day	Consumers	-
DNEL	Dermal (repeated dose)	12.8 mg/kg/day	Consumers	-
DNEL	Inhalation (repeated dose)	1.67 mg/m ³	Consumers	-
PNEC	Fresh water	0.321 mg/l	-	-
PNEC	Marine water	0.312 mg/l	-	-
PNEC	Soil	62.6 mg/l	-	-
PNEC	Sediment	0.063 mg/l	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place.

Respiratory protection: * Respiratory protective device with particle filter. Particle filter class P2S (EN143).

Hand protection: Protective gloves.

Eye protection: Safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing. Boots. Ensure safety shower is to hand.

Environmental: No special requirement.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Powder, crystals or granules.

Colour: White to off-white

Odour: Ammonical

Evaporation rate: Not applicable.

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Highly soluble

Also soluble in: Insoluble in alcohol. Insoluble in Acetone.

Viscosity: Not applicable.

Boiling point/range°C: > 235 (Decomp.)

Melting point/range°C: 350

Flammability limits %: lower: Not applicable.

upper: Not applicable.

Flash point°C: Not applicable.

Part.coeff. n-octanol/water: -5.1

Relative density: ~ 1.77 g/ml

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pH: ~ 5 (Conc. Aqu Soln)

9.2. Other information

Other information: Product is not flammable. No further information available at this time.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Humidity. Moisture.

10.5. Incompatible materials

Materials to avoid: * Strong bases. Alkalis. Strong oxidising agents. Inorganic Nitrates. Inorganic Nitrites
Sodium Hypochlorite. Chlorates.

10.6. Hazardous decomposition products

Haz. decomp. products: * In combustion emits toxic fumes of sulphur oxides. May release ammonia fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

*** Toxicity values:**

Route	Species	Test	Value	Units
ORAL	RAT	LD50	4250	mg/kg
DERMAL	RAT	LD50	> 2000	mg/kg

Symptoms / routes of exposure

Skin contact: * There may be mild irritation at the site of contact. There may be redness or whiteness of the skin in the area of exposure.

Eye contact: * There may be irritation and redness. The eyes may water profusely. May cause mechanical irritation to the eyes.

Ingestion: * May cause mild irritation of the gastrointestinal tract if large quantities are ingested. Nausea and stomach pain may occur.

Inhalation: May cause irritation of the mucous membranes and respiratory system.

Delayed / immediate effects: * Immediate effects can be expected after short-term exposure.

Other information: * There is no further information at this time.

[cont...]

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Section 12: Ecological information

12.1. Toxicity

* Ecotoxicity values:

Species	Test	Value	Units
FISH	96H LC50	53	mg/l
DAPHNIA	48H EC50	122 - 129	mg/l

12.2. Persistence and degradability

Persistence and degradability: * The product is inorganic so can not be biodegradable, however it is expected to degrade or disassociate.

12.3. Bioaccumulative potential

Bioaccumulative potential: * No bioaccumulation potential.

12.4. Mobility in soil

Mobility: * Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: * Not expected to cause significant environmental impact. May act as a plant nutrient. Do not allow to enter watercourses or soils. Spillage in sewers or waterways must be avoided.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: * Transfer to a suitable container and arrange for collection by specialised disposal company.

Recovery operations: * No significant opportunity for recovery available with the product. No information available at this time.

Disposal of packaging: Contaminated containers must not be treated as household waste. Where practical, containers and packaging should be recycled by a licenced contactor.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

Specific regulations: * The substances use may be restricted under Annex XVII of REACH (EC No. 1907/2006). This products useage may be controlled under BPR (Biocidal Products Regulation (EC) No. 528/2012).

15.2. Chemical Safety Assessment

Chemical safety assessment: * A chemical safety assessment has not been carried out for the substance or the mixture by the supplier. Due to the hazard classification a chemical safety report (CSR) is not required for this product.

Section 16: Other information

Other information

Other information: * This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

This safety data sheet is prepared in accordance with Commission Regulation (EC) No 1272/2008.

* indicates text in the SDS which has changed since the last revision.

There are no exposure levels set for the specific product thus the following levels should be adhered to,

Total Inhalable Dust (8 hr TWA): 10 mg/m-3	Respirable Dust (8
hr TWA): 4 mg/m-3	

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.