



## SAFETY DATA SHEET

Date of issue: 14/01/99

### 1. Identification of the substance/preparation and of the company/undertaking

#### *Identification of the product*

Catalogue No: 27195

ID No.: 1003200

Product name: **Ammonium peroxodisulphate GPR (ammonium persulphate)**

Use of the substance/preparation: General chemical reagent

#### *Manufacturer/supplier identification*

Company: VWR International Ltd  
Hunter Boulevard, Magna Park, Lutterworth, Leicestershire, England, LE17 4XN  
Telephone : + 44 (0) 1455 558600      Telefax : + 44 (0) 1455 558586

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### 2. Composition/information on ingredients

#### *Chemical characterization*

Inorganic salt

Product name: Ammonium peroxodisulphate

CAS number: 7727-54-0

EC-No.: 231-786-5

Molecular formula:  $(\text{NH}_4)_2\text{S}_2\text{O}_8 = 228.19 \text{ g/mol}$

### 3. Hazards identification

Contact with combustible material may cause fire. Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.

### 4. First aid measures

- Eye contact: Irrigate thoroughly with water for at least 10 minutes. OBTAIN MEDICAL ATTENTION.
- Inhalation: Remove from exposure, rest and keep warm. In severe cases, or if exposure has been great, OBTAIN MEDICAL ATTENTION.
- Skin contact: Drench the skin thoroughly with water. Remove contaminated clothing and wash before re-use. Unless contact has been slight, OBTAIN MEDICAL ATTENTION.
- Ingestion: Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

### 5. Fire-fighting measures

#### *Special risks:*

May ignite combustible material. May evolve toxic fumes in fire.

***Suitable extinguishing media:***

Dry powder, sand or carbon dioxide

**6. Accidental release measures**

Wear appropriate protective clothing.

If local regulations permit, transfer spillage into containers of water, stir to dissolve or suspend and run to waste, diluting greatly with running water. Otherwise mix with wet sand, transfer to container and arrange removal by disposal company. As contact with any oxidant can render organic matter (paper, wood, textiles) dangerously combustible, wash area of spillage and contaminated clothing thoroughly with water.

For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.

**7. Handling and storage**

***Handling:***

Do not breathe dust. Change contaminated clothing and immerse in water. Wash hands and face after working with substance.

***Storage:***

Store at 15°C to 25°C. Keep well closed and protected from direct sunlight and moisture. Store away from combustible materials.

**8. Exposure controls/personal protection**

***UK Exposure Limits:***

WEL, di-Ammonium peroxodisulphate (as S<sub>2</sub>O<sub>8</sub>):

Long term: 1 mg/m<sup>3</sup>

***Personal protective equipment:***

As appropriate to the situation and the quantity handled.

- Respirator: Dust respirator required when dusts are generated.
- Ventilation: Extraction hood required when dusts are generated.
- Gloves: Rubber or plastic
- Eye Protection: Goggles or face-shield
- Other Precautions: Plastic apron, sleeves, boots - if handling large quantities

Engineering methods to control or prevent exposure are preferred. Methods could include process enclosure or mechanical ventilation.

**9. Physical and chemical properties**

***General information:***

Form:	solid
Colour:	colourless to white
Odour:	odourless

***Health, safety and environmental information:***

Melting temperature	120 °C
Boiling temperature	n/a
Density(g/ml)	1.98
Solubility in water	Very soluble
pH value	3 (100g/l H <sub>2</sub> O)
Flash point	Not applicable
Explosion limits: lower:	No data
Auto-ignition temperature	No data

## 10. Stability and reactivity

sensitive to moisture.

Substances to be avoided

bases, combustible substances, iron, hydrogen peroxide, peroxy compounds, silver compounds, zinc.

Hazardous decomposition products

sulphur oxides, ammonia, ozone.

The possibility of reaction with other substances cannot be excluded.

## 11. Toxicological information

Slight irritations of: skin, mucous membranes. Risk of sensitization.

After absorption: Irritation of: eyes, respiratory tract, lungs, gastrointestinal tract.

Classified as a cause of asthma using EU criteria.

### *Further data*

LD<sub>50</sub> 689 mg/kg oral, rat.

We have no evidence of carcinogenic effects. We have no evidence of mutagenic or teratogenic effects.

## 12. Ecological information

Product reacts with water. Decomposition products: ammonium compounds, oxygen.

The following applies to ammonium ions in general: biological effects: fish: toxic from 0.3 mg/l up; plankton: toxic from 0.3 mg/l up.

The following applies to sulphates in general: biological effects: fish: toxic from 7 g/l up; bacteria: toxic from 2.5 g/l up.

## 13. Disposal considerations

Chemical residues are generally classified as hazardous or special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

## 14. Transport information

UN-No.: 1444

Class: 5.1

Packaging group: III

Proper shipping name: AMMONIUM PERSULPHATE

## 15. Regulatory information

***Labelling according to EC directives***

Symbol(s): O Xn Oxidising, Harmful.

R-phrases: R8-22-36/37/38-42/43

Contact with combustible material may cause fire. Harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and skin contact.

S-phrases: S22-24-26-37

Do not breathe dust. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves.

EC-No.: 231-786-5

***Local Regulations***

U.K. Transport Category 3

Within the UK, the use of this material must be assessed under the Control of Substances Hazardous to Health (COSHH) regulations.

**16. Other information**

Revision.

Supersedes edition of: 18/08/94

Reason for alteration: Changes in Section : 15

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