

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 25.08.2007

Revision: 25.08.2007

1 Identification of substance:

· **Product details:**

· **Trade name:** Ammonium Peroxodisulfate

· **Article number:** 0028, 1899

· **Application of the substance / the preparation**

Chemicals for synthesis

Laboratory chemicals

· **Manufacturer/Supplier:**

Mallinckrodt Baker B.V

P.O.Box 1

7400 AA Deventer

The Netherlands

Tel(+31)(0) 570-687500

Fax(+31)(0) 570-687574

E-mail : jtbaker.nl@covidien.com

· **Informing department:**

Quality Systems & Regulatory Affairs

E-mail : sjors.duteweert@covidien.com

· **Emergency information:**

Environment Health & Safety department

during normal opening times (8 am till 5.30 pm) tel: (+31)(0) 570 687500

2 Hazards identification

· **Hazard designation:**



Xn Harmful

O Oxidising

· **Information pertaining to particular dangers for man and environment**

R 8 Contact with combustible material may cause fire.

R 22 Harmful if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 42/43 May cause sensitisation by inhalation and skin contact.

3 Composition/information on ingredients

· **Chemical characterization:**

· **CAS No. Designation:**

7727-54-0 Ammonium Peroxodisulfate

· **Identification number(s):**

· **EINECS Number:** 231-786-5

· **EC Number:** 016-060-00-6

· **Synonyms** Ammonium Persulfate

4 First aid measures

· **General information**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation**

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact** Instantly wash with water and soap and rinse thoroughly.

· **After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

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- **After swallowing**
Rinse out mouth
Seek medical treatment.
Instantly call for doctor.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **Protective equipment:** Wear self-contained breathing apparatus.

6 Accidental release measures

- **Person-related safety precautions:** Avoid causing dust.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:**
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
- **Information about protection against explosions and fires:** no special requirements
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:**
Store away from reducing agents.
Store away from flammable substances.
- **Further information about storage conditions:**
Store under dry conditions.
Keep container tightly sealed.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

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- **Protection of hands:**
Protective gloves.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
PVC gloves
Butyl rubber, BR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

- **General Information**
Form: Crystalline powder
Colour: White
Smell: Odourless
- **Change in condition**
Melting point/Melting range: 120°C
Boiling point/Boiling range: Not determined
Flash point: -23°C
- **Inflammability (solid, gaseous)** Contact with combustible material may cause fire.
- **Density at 20°C** 1.982 g/cm³
- **Settled apparent density at 20°C** 900 kg/m³
- **Solubility in / Miscibility with**
Water at 20°C: 620 g/l
- **pH-value (100 g/l) at 20°C:** 3.2

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** Heat,boiling teperatures.
- **Materials to be avoided:**
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of composition:** No dangerous decomposition products known

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

Oral	LD50	600 mg/kg (rat (male)) 495 mg/kg (rat (female))
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Dermal	LD50	820 mg/kg (rat) >2.000 mg/kg (rat) >10.000 mg/kg (rabbit)
Inhalative	LC50/4h	>2.95 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant for skin and mucous membranes.
- **on the eye:** Irritant effect.
- **Sensitization:**
Sensitization possible by inhalation.
Sensitization possible by skin contact.
- **Sensitisation** May cause sensitisation by inhalation and skin contact.

12 Ecological information:

- **Ecotoxicological effects:**

- **Aquatic toxicity:**

EC50/48h	120 mg/l (daphnia magna)
LC50/96h	103 mg/l (Bluegill, Sunfish (Lepomis macrochirus))

- **General notes:**
Water hazard class (D) 1 (Assessment by list): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**



- **ADR/RID-GGVS/E Class:** 5.1 Oxidising substances.
- **Kemler Number:** 50
- **UN-Number:** 1444
- **Packaging group:** III
- **Label** 5.1
- **Designation of goods:** 1444 AMMONIUM PERSULPHATE
- **Limited quantities (LQ)** LQ12
- **Transport category** 3

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· **Tunnel restriction code** E

· **Maritime transport IMDG/GGVSea:**



- **IMDG/GGVSea Class:** 5.1
- **UN Number:** 1444
- **Label** 5.1
- **Packaging group:** III
- **EMS Number:** F-A,S-Q
- **Correct technical name:** AMMONIUM PERSULPHATE

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 5.1
- **UN/ID Number:** 1444
- **Label** 5.1
- **Packaging group:** III
- **Correct technical name:** AMMONIUM PERSULPHATE

15 Regulatory information

· **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· **Code letter and hazard designation of product:**

- Xn Harmful
- O Oxidising

· **Risk phrases:**

- 8 Contact with combustible material may cause fire.
- 22 Harmful if swallowed.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 42/43 May cause sensitisation by inhalation and skin contact.

· **Safety phrases:**

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

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing data specification sheet:** Quality Assurance Department
- **Contact:** Sjors duteweert
- *** Data compared to the previous version altered.**