

**1 Identification of the substance / preparation and of the company****1.1 Product identifier****Ammonium persulphate**

Registration number 01-2119495973-19-0004

**1.2 Relevant identified uses of the substance or mixture and uses advised against**Usage only in accordance with the identified usages as stipulated in the CSR/CSA.  
Initiator for emulsion polymerizations, oxidizing agent**1.3 Details of the supplier of the safety data sheet**

<b>Company</b>	RheinPerChemie GmbH Große Bleichen 35 20354 Hamburg / GERMANY Phone: +49 (0)40-32 50 95-0 Fax: +49 (0)40-32 50 95-10 Homepage: www.rheinperchemie.com E-mail: sales@RheinPerChemie.com
<b>Responsible</b>	Schroeder@chemiebuero.de

**1.4 Emergency phone**

+49 (0) 7623 91 7272 (24h)

**2 Hazards identification****2.1 Classification of the substance or mixture****2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]**Ox. Sol. 3, H272  
Acute Tox. 4, H302  
Eye Irrit. 2, H319  
STOT SE 3, H335  
Skin Irrit. 2, H315  
Resp. Sens. 1, H334  
Skin Sens. 1, H317**2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC**

O-Xn, R 8-22-36/37/38-42/43

## 2.2 Label elements

## Hazard pictograms



## Signal word

DANGER

## Contains

Diammonium peroxodisulphate EU-INDEX 016-060-00-6

## Hazard statements

H272 May intensify fire; oxidiser.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

## Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P220 Keep/Store away from clothing/.../combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P261 Avoid breathing dust.

P264 Wash thoroughly after handling with plenty of water.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P285 In case of inadequate ventilation wear respiratory protection.

P302 P352 IF ON SKIN: Wash with plenty of soap and water.

P304 P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P332 P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

## Special labelling

not applicable

## 2.3 Other hazards

## Physico-chemical hazards

See chapter 10.

## Human health dangers

See chapter 11.

## Environmental hazards

See chapter 12.

## Other hazards

No particular hazards known.

## 3 Composition / Information on ingredients

## 3.1 Substances

Range [%]	Substance
≥ 99,0	Diammonium peroxodisulphate
	CAS: 7727-54-0, EINECS/ELINCS: 231-786-5, EU-INDEX: 016-060-00-6
	GHS/CLP: Ox. Sol. 3, H272 - Acute Tox. 4, H302 - Eye Irrit. 2, H319 - STOT SE 3, H335 - Skin Irrit. 2, H315 - Resp. Sens. 1, H334 - Skin Sens. 1, H317
	EEC: O-Xn R22-36/37/38-42/43-8

## 3.2 Mixtures

The product in question is a substance.

## Comment on component parts

 Substances of Very High Concern - SVHC: substances are not contained or below 0,1%.  
 For the wording of the listed risk phrases refer to section 16.

#### 4 First aid measures

##### 4.1 Description of first aid measures

<b>General information</b>	Change soaked clothing immediately.
<b>Inhalation</b>	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
<b>Skin contact</b>	In case of contact with skin wash off immediately with plenty of water. Consult a doctor if skin irritation persists.
<b>Eye contact</b>	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
<b>Ingestion</b>	Supply with medical care. Rinse out mouth and give plenty of water to drink. Do not induce vomiting.

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

No informations available.

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

Treat symptomatically.

#### 5 Fire-fighting measures

##### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	Foam, dry powder, water spray jet, carbon dioxide.
<b>Extinguishing media that must not be used</b>	Full water jet.

##### 5.2 Special hazards arising from the substance or mixture

Unknown risk of formation of toxic pyrolysis products.  
Sulphur oxides (SO<sub>x</sub>).  
Nitrogen oxides (NO<sub>x</sub>).

##### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Wear full protective suit.  
Cool containers at risk with water spray jet.  
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

#### 6 Accidental release measures

##### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.  
Use personal protective clothing.  
Avoid dust formation.

##### 6.2 Environmental precautions

Knock down dust with water spray jet.  
Retain and dispose of contaminated wash water.

##### 6.3 Methods and material for containment and cleaning up

Take up mechanically.  
Avoid raising dust.  
Dispose of absorbed material in accordance within the regulations.

##### 6.4 Reference to other sections

See Chapter 8+13

## 7 Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.  
 Provide vacuuming if dust raised.  
 Avoid the formation and deposition of dust.  
 Keep away from all sources of ignition.

### 7.2 Conditions for safe storage, including any incompatibilities

Only use containers that are approved specifically for the substance/product.  
 Do not store with combustible materials.  
 Do not store together with reducing agents.  
 Do not store together with acids and alkalis.  
 Keep container tightly closed.  
 Store in a dry place.  
 Keep container in a well-ventilated place.  
 Protect from heat/overheating.

### 7.3 Specific end use(s)

See product use, Chapter 1.2

## 8 Exposure controls / personal protection

### 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored (GB)

Range [%]	Substance / WEL: Workplace exposure limit
≥ 99,0	Diammonium peroxodisulphate / - ppm, 1 mg/m <sup>3</sup> , (S2O8)

### 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. To pay attention to dust limit value (ACGHI-2006: 10 mg/m <sup>3</sup> particle inhalable; 3 mg/m <sup>3</sup> particle respirable). Generic Exposure Scenarios only in accordance with the identified usages as stipulated in the CSR/CSA.
<b>Eye protection</b>	Safety glasses.
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact Nitrile rubber, >480 min (EN 374).
<b>Skin protection</b>	Impermeable protective clothing.
<b>Other</b>	Do not inhale dust. Avoid contact with eyes and skin. Do not eat, drink, smoke or take drugs at work. Wash hands before breaks and after work. Use barrier skin cream. Clean skin thoroughly after work, apply skin cream.
<b>Respiratory protection</b>	Respiratory protection in the case of dust formation. Short term: filter apparatus, filter P2.
<b>Thermal hazards</b>	No informations available.
<b>Delimitation and monitoring of the environmental exposition</b>	not determined

**9 Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Form	solid crystalline
Color	white
Odor	odourless
Odour threshold	not determined
pH-value	ca. 2,3 (250 g/l) (20°C)
pH-value [1%]	not determined
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability [°C]	not determined
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	yes
Vapour pressure [kPa]	not applicable
Density [g/ml]	1,98 (20°C)
Bulk density [kg/m³]	900 - 1100 (20°C)
Solubility in water	559 (20°C)
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature	> 160

**9.2 Other information**

No informations available.

**10 Stability and reactivity****10.1 Reactivity**

See chapter 10.3.

**10.2 Chemical stability**

Stable under normal ambient conditions (ambient temperature).

**10.3 Possibility of hazardous reactions**

Reactions with combustible substances.  
Reactions with strong acids and alkalis.  
Reactions with reducing agents, heavy metals.

**10.4 Conditions to avoid**

Strong heating.

**10.5 Incompatible materials**

No informations available.

**10.6 Hazardous decomposition products**

Oxygen.

## 11 Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Diammonium peroxodisulphate, CAS: 7727-54-0

LD0, dermal, Rabbit: 2000 mg/kg (IUCLID).

LC0, inhalative, Rat: 2,95 mg/l/4h (IUCLID).

LD50, oral, Rat: 495 mg/kg (IUCLID).

#### Serious eye damage/irritation

not determined

#### Skin corrosion/irritation

not determined

#### Respiratory or skin sensitisation

Sensitizing in the maximum-dose test on guinea pigs.

#### Specific target organ toxicity — single exposure

not determined

#### Specific target organ toxicity — repeated exposure

not determined

#### Mutagenicity

Ames-Test, OECD 471, Salmonella typhimurium, negative.

#### Reproduction toxicity

not determined

#### Carcinogenicity

not determined

#### General remarks

none

The toxicological data are those of the pure product.

## 12 Ecological information

### 12.1 Toxicity

#### Diammonium peroxodisulphate, CAS: 7727-54-0

IC10, (96h), Scenedesmus quadricauda (alga): 33 mg/l (IUCLID).

EC50, (48h), Daphnia magna: 120 mg/l (IUCLID).

LC50, (96h), Oncorhynchus mykiss: 76 mg/l (IUCLID).

### 12.2 Persistence and degradability

#### Behaviour in environment compartments

not determined

#### Behaviour in sewage plant

Obtain approval of the relevant authorities before discharging into sewage treatment plants.

#### Biological degradability

not applicable

### 12.3 Bioaccumulative potential

No informations available.

### 12.4 Mobility in soil

No informations available.

### 12.5 Results of PBT and vPvB assessment

No informations available.

### 12.6 Other adverse effects

Do not discharge product unmonitored into the environment.

### 13 Disposal considerations

#### 13.1 Waste treatment methods

Coordinate the waste disposal with the national authorities.

##### Product

Dispose of as hazardous waste.  
For recycling, consult waste disposal centres.

##### Waste no. (recommended)

060314

##### Contaminated packaging

Uncontaminated packaging may be taken for recycling.  
Packaging that cannot be cleaned should be disposed of as for product.

##### Waste no. (recommended)

150110\*

### 14 Transport information

#### 14.1 UN number

See point 14.2 in accordance with UN shipping name

#### 14.2 UN proper shipping name

##### Classification according to ADR

UN 1444 Ammonium persulphate 5.1 III

##### - Classification Code

O2

##### - Label



##### - ADR LQ

5 kg

##### - ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

##### Classification according to IMDG

UN 1444 Ammonium persulphate 5.1 III

##### - EMS

F-A, S-Q

##### - Label



##### - IMDG LQ

5 kg

##### Classification according to IATA

UN 1444 Ammonium persulphate 5.1 III

##### - Label



#### 14.3 Transport hazard class(es)

See point 14.2 in accordance with UN shipping name

#### 14.4 Packing group

See point 14.2 in accordance with UN shipping name

#### 14.5 Environmental hazards

See point 14.2 in accordance with UN shipping name

#### 14.6 Special precautions for user

Relevant information under points 6 to 8.

#### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No informations available.

### 15 Regulatory information

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

##### EEC-REGULATIONS

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

##### TRANSPORT-REGULATIONS

DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2011).

##### NATIONAL REGULATIONS (GB):

EH40/2005 Workplace exposure limits with amendments October 2007.  
CHIP 3/ CHIP 4

**15.2 Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

**16 Other informations****R-phrases (Chapter 03)**

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.  
 R 8: Contact with combustible material may cause fire.

**Hazard statements (Chapter 03)**

H272 May intensify fire; oxidiser.  
 H302 Harmful if swallowed.  
 H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.  
 H315 Causes skin irritation.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H317 May cause an allergic skin reaction.

**Observe employment restrictions for people**

yes

**VOC (1999/13/CE)**

not applicable

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