

RheinPerChemie GmbH

20095 Hamburg

Date printed 10.11.2014, Revision 15.02.2011

Version 01

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SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1 Product identifier
Sodium persulphate

Registration number	01-2119495975-15-0004
IUPAC	Peroxydisulfuric acid, disodium salt
EINECS/ELINCS	231-892-1
CAS	7775-27-1

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

Initiator for emulsion polymerizations, oxidizing agent
Usage only in accordance with the identified usages as stipulated in the CSR/CSA.

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company	RheinPerChemie GmbH Kattrepel 2 20095 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
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Address enquiries to

Technical information	sales@RheinPerChemie.com
Safety Data Sheet	sdb@chemiebuero.de

1.4 Emergency telephone number

Company	+49 (0) 7623 91 7272 (24h)
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SECTION 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 May intensify fire; oxidiser.
Acute Tox. 4: H302 Harmful if swallowed.
Eye Irrit. 2: H319 Causes serious eye irritation.
STOT SE 3: H335 May cause respiratory irritation.
Skin Irrit. 2: H315 Causes skin irritation.
Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1: H317 May cause an allergic skin reaction.

2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

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

2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms



Signal word

DANGER

Contains:

Peroxydisulfuric acid, disodium salt EINECS: 231-892-1

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, hot surfaces, sparks, open flames and other ignition sources. 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.
 P284 In case of inadequate ventilation wear respiratory protection.
 P302+P352 IF ON SKIN: Wash with plenty of water/soap.
 P304+P340 IF INHALED: Remove person to fresh air and keep 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/doctor if you feel unwell.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P362 Take off contaminated clothing.
 P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

2.3 Other hazards

Physico-chemical hazards	See SECTION 10.
Human health dangers	See SECTION 11.
Environmental hazards	See SECTION 12.
Other hazards	none

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a substance.

Range [%]	Substance
≥ 99,0	Peroxydisulfuric acid, disodium salt
	CAS: 7775-27-1, EINECS/ELINCS: 231-892-1
	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, R 8-22-36/37/38-42/43

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%. For full text of H-statements and R-phrases: see SECTION 16.

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SECTION 4: First aid measures**4.1 Description of first aid measures**

General information	Change soaked clothing immediately.
Inhalation	Ensure supply of fresh air. In the event of symptoms seek for medical treatment.
Skin contact	In case of contact with skin wash off immediately with plenty of water. Consult a doctor if skin irritation persists.
Eye contact	In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
Ingestion	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 information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures**5.1 Extinguishing media**

Suitable extinguishing media	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered. Water spray jet.
Extinguishing media that must not be used	Full water jet.

5.2 Special hazards arising from the substance or mixtureRisk of formation of toxic pyrolysis products.
Sulphur oxides (SO_x).**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 with the local regulations.**SECTION 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 with the regulations.**6.4 Reference to other sections**

See SECTION 8+13

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SECTION 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.
 The product is not combustible.
 Keep away from all sources of ignition.
 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.

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 alkalies.
 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, SECTION 1.2

SECTION 8: Exposure controls / personal protection

Ingredients with occupational exposure limits to be monitored (GB)

8.1 Control parameters

not applicable

8.2 Exposure controls

Additional advice on system design

Ensure adequate ventilation on workstation.
 To pay attention to dust limit value (ACGHI-2011: 10 mg/m³ particle inhalable; 3 mg/m³ particle respirable).
 Generic Exposure Scenarios only in accordance with the identified usages as stipulated in the CSR/CSA.

Eye protection

Safety glasses.

Hand protection

The details concerned are recommendations. Please contact the glove supplier for further information.
 In full contact:
 Butyl rubber, >480 min (EN 374).

Skin protection

Impermeable protective clothing.

Other

Do not inhale dust.
 Avoid contact with eyes and skin.
 Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.

Respiratory protection

Respiratory protection in the case of dust formation.
 Short term: filter apparatus, filter P2.

Thermal hazards

No information available.

Delimitation and monitoring of the environmental exposition

not determined

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SECTION 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. 4,3 (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/gas pressure [kPa]	not applicable
Density [g/ml]	2,59 (20°C)
Bulk density [kg/m ³]	1200 - 1350 (20°C)
Solubility in water	556 (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 [°C]	> 180

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 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 alkalies.

Reactions with reducing agents, heavy metals.

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.

10.4 Conditions to avoid

Strong heating.

Reactions with damp air.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

Oxygen.

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SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Range [%]	Substance
≥ 99,0	Peroxydisulfuric acid, disodium salt, CAS: 7775-27-1
	LD50, dermal, Rabbit: > 10000 mg/kg (Lit.).
	LD50, oral, Rat: 920 mg/kg (IUCLID).
	LC50, inhalative, Rat: > 5,1 mg/l/4h (Lit.).

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	(IUCLID) Ames-test: negative.
Reproduction toxicity	not determined
Carcinogenicity	not determined
General remarks	

The toxicological information is based on the main components.

SECTION 12: Ecological information**12.1 Toxicity**

Range [%]	Substance
≥ 99,0	Peroxydisulfuric acid, disodium salt, CAS: 7775-27-1
	LC50, (96h), Oncorhynchus mykiss: 771 mg/l (IUCLID).
	EC50, (48h), Daphnia magna: 133 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 determined

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

Do not discharge product unmonitored into the environment.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

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

Waste no. (recommended)

060314

Contaminated packaging

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

Waste no. (recommended)

150110*

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID

UN 1505 SODIUM 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)

Inland navigation (ADN)

UN 1505 SODIUM PERSULPHATE 5.1 III

- Classification Code

O2

- Label



Marine transport in accordance with IMDG

UN 1505 Sodium persulphate 5.1 III

- EMS

F-A, S-Q

- Label



- IMDG LQ

5 kg

Air transport in accordance with IATA UN 1505 Sodium persulphate 5.1 III

- Label



14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

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14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

No information available.

SECTION 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 (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).
CHIP 3/ CHIP 4

- Observe employment restrictions for people yes

- VOC (1999/13/CE) not applicable

15.2 Chemical safety assessment

For this substance a chemical safety assessment has been carried out. Assessment is available from the manufacturer. For more information on the measures of risk management can contact the manufacturer.

SECTION 16: Other information**16.1 R-phrases (SECTION 3)**

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.

16.2 Hazard statements (SECTION 3)

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

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16.3 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.4 Other information**Customs Tariff**

not determined

Classification procedure

Ox. Sol. 3: H272 May intensify fire; oxidiser. (On basis of test data)
 Acute Tox. 4: H302 Harmful if swallowed. (On basis of test data)
 Eye Irrit. 2: H319 Causes serious eye irritation. (On basis of test data)
 STOT SE 3: H335 May cause respiratory irritation. (On basis of test data)
 Skin Irrit. 2: H315 Causes skin irritation. (On basis of test data)
 Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. (On basis of test data)
 Skin Sens. 1: H317 May cause an allergic skin reaction. (On basis of test data)

Modified position

none



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