

## SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

**Sodium Persulfate**

Version 3.1

Print Date 10.09.2016

Revision Date 07.04.2011

**1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name : Sodium Persulfate  
Substance name : Disodium peroxodisulphate  
CAS-No. : 7775-27-1  
EC-No. : 231-892-1  
Registration number : 01-2119495975-15-xxxx

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

Use of the Substance/Mixture : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

Recommended restrictions on use : At that time we do not yet have information on use restrictions. They will be included in this safety data sheet when available.

**1.3. Details of the supplier of the safety data sheet**

Company : Brenntag GmbH  
Stinnes-Platz 1  
DE 45472 Muelheim an der Ruhr  
Telephone : +49 (0)208-7828-0  
Telefax : +49 (0)208-7828-7299  
E-mail address : InfoSDB@brenntag.de  
Responsible/issuing person : Umwelt / Sicherheit

**1.4. Emergency telephone number**

Emergency telephone number : +49 (0)208-7828-0 Available 24h/7d

**2. Hazards identification****2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008

**REGULATION (EC) No 1272/2008**

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Hazard class	Hazard category	Target Organs	Hazard statements
Oxidizing solids	Category 3	---	H272
Acute toxicity	Category 4	---	H302
Eye irritation	Category 2	---	H319
Specific target organ toxicity - single exposure	Category 3	---	H335
Skin irritation	Category 2	---	H315
Respiratory sensitization	Category 1	---	H334
Skin sensitization	Category 1	---	H317

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Directive 67/548/EEC or 1999/45/EC	
Hazard symbol / Category of danger	Risk phrases
Oxidising (O)	R 8
Harmful (Xn)	R22
	R42/43
Irritant (Xi)	R36/37/38

For the full text of the R-phrases mentioned in this Section, see Section 16.

Potential environmental effects : See section 12 for environmental information.  
No further information available.

**2.2. Label elements****Labelling according to Regulation (EC) No 1272/2008**

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Hazard symbols



Signal word

: Danger

Hazard statements

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

Prevention

P261  P262 P280	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Do not get in eyes, on skin, or on clothing. Wear protective gloves/ protective clothing/ eye protection/ face protection.
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Response

P302 + P352  P304 + P340  P305 + P351 + P338  P311	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/ physician.
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**Hazardous components which must be listed on the label:**

|| • Disodium peroxodisulphate

**2.3. Other hazards**

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No other information is available.

**3. Composition/information on ingredients**
**3.1. Substances**

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)		Classification (67/548/EEC)
		Hazard class / Hazard category	Hazard statements	
<b>Disodium peroxodisulphate</b>				
CAS-No.	: 7775-27-1	Ox. Sol.3	H272	O; R 8
EC-No.	: 231-892-1	Acute Tox.4	H302	Xn; R22
C&L-No.	: 02-2119752894-25-0000	Eye Irrit.2	H319	R42/43
	<= 100	STOT SE3	H335	Xi; R36/37/38
		Skin Irrit.2	H315	
		Resp. Sens.1	H334	
		Skin Sens.1	H317	

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

**4. First aid measures**
**4.1. Description of first aid measures**

General advice	: First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.
If inhaled	: Move to fresh air. In case of shortness of breath, give oxygen. If unconscious place in recovery position and seek medical advice.
In case of skin contact	: Wash off immediately with soap and plenty of water. Consult a physician.
In case of eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.

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If swallowed : Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Risk of aspiration! If a person vomits when lying on his back, place him in the recovery position. Call a physician immediately.

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

Symptoms : Skin irritation, Severe eye irritation, Allergic reactions, Respiratory irritation, Asthmatic appearance

Effects : Harmful if swallowed.

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

Treatment : Treat symptomatically.

**5. Fire-fighting measures****5.1. Extinguishing media**

Suitable extinguishing media : Water spray, foam, dry powder or CO<sub>2</sub>.

Unsuitable extinguishing media : High volume water jet

**5.2. Special hazards arising from the substance or mixture**

Specific hazards during fire fighting : The product is oxidizing. The substance itself does not burn, but in contact with combustible substances it increases the risk of fire and can fuel any existing fire substantially. Keep away from combustible material. In case of fire hazardous decomposition products may be produced such as: Sulphur oxides

**5.3. Advice for firefighters**

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and protective suit.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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**6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment. Keep people away from and upwind of spill/leak. Avoid contact with skin and eyes. Avoid dust formation.

**6.2. Environmental precautions**

Environmental precautions : Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities. If material reaches soil inform authorities responsible for such cases.

**6.3. Methods and materials for containment and cleaning up**

Methods and materials for containment and cleaning up : Use mechanical handling equipment. Keep in suitable, closed containers for disposal.

Further information : Never return spills in original containers for re-use.

**6.4. Reference to other sections**

See Section 1 for emergency contact information.  
See Section 8 for information on personal protective equipment.  
See Section 13 for waste treatment information.

**7. Handling and storage****7.1. Precautions for safe handling**

Advice on safe handling : Never return unused material to storage receptacle. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Avoid dust formation.

Hygiene measures : Take off all contaminated clothing immediately.  
Wash hands before breaks and at the end of workday.  
Keep away from food, drink and animal feedingstuffs.  
Smoking, eating and drinking should be prohibited in the application area.  
Avoid contact with the skin and the eyes.  
Do not breathe dust.

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**7.2. Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Keep tightly closed in a dry and cool place. Keep only in the original container.

Advice on protection against fire and explosion : Oxidising. Keep away from combustible material.

Further information on storage conditions : Keep away from heat. Keep away from direct sunlight. Avoid moisture. Protect from contamination. Product is hygroscopic.

German storage class : 5.1B Oxidising Solids

**7.3. Specific end uses**

Note : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

**8. Exposure controls/personal protection****8.1. Control parameters****Other OELs**

(Additional) Information : Contains no substances with occupational exposure limit values.

**8.2. Exposure controls****Personal protective equipment***Respiratory protection*

Advice : In case of insufficient ventilation, wear suitable respiratory equipment.  
Recommended Filter type:  
Particle filter:P2

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*Hand protection*

Advice : Wear suitable gloves.  
Gloves must be inspected prior to use.  
Preventive skin protection  
Before removing gloves clean them with soap and water.  
The following information applies to aqueous, saturated solutions.  
The glove material has to be impermeable and resistant to the product / the substance / the preparation.  
The following materials are suitable:

Material : Natural Rubber  
Break through time : > 480 min  
Glove thickness : 0,5 mm

Material : polychloroprene  
Break through time : > 480 min  
Glove thickness : 0,5 mm

Material : Nitrile rubber  
Break through time : > 480 min  
Glove thickness : 0,35 mm

Material : butyl-rubber  
Break through time : > 480 min  
Glove thickness : 0,5 mm

Material : Fluorinated rubber  
Break through time : > 480 min  
Glove thickness : 0,4 mm

Material : Polyvinylchloride  
Break through time : > 480 min  
Glove thickness : 0,5 mm

*Eye protection*

Advice : Tightly fitting safety goggles



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*Skin and body protection*

Advice : Complete suit protecting against chemicals

**Environmental exposure controls**

General advice : Do not flush into surface water or sanitary sewer system.  
Avoid subsoil penetration.  
If the product contaminates rivers and lakes or drains inform respective authorities.  
If material reaches soil inform authorities responsible for such cases.

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

Form	:	crystalline
Colour	:	white
Odour	:	odourless
Odour Threshold	:	no data available
pH	:	ca. 4,3 (10 g/l; 20 °C)
Melting point/range	:	> 180 °C Thermal decomposition
Boiling point/boiling range	:	not applicable
Flash point	:	not applicable
Evaporation rate	:	not applicable
Flammability (solid, gas)	:	Contact with combustible material may cause fire.
Upper explosion limit	:	not applicable
Lower explosion limit	:	not applicable

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Vapour pressure	:	not applicable
Relative vapour density	:	not applicable
Density	:	1,2 g/cm <sup>3</sup> (20 °C)
Water solubility	:	556 g/l (20 °C) soluble
Partition coefficient: n-octanol/water	:	not applicable
Ignition temperature	:	no data available
Thermal decomposition	:	> 180 °C
Viscosity, kinematic	:	not applicable
Explosive properties	:	EU legislation: Not explosive
Oxidizing properties	:	May intensify fire; oxidiser.

**9.2. Other information**

No further information available.

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

Advice : Risk of violent reaction.

**10.2. Chemical stability**

Advice : Decomposes on heating.

**10.3. Possibility of hazardous reactions**

Hazardous reactions : Contact with combustible material may cause fire. Reacts with reducing agents.

**10.4. Conditions to avoid**

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Conditions to avoid : Extremes of temperature and direct sunlight.  
Avoid moisture.

Thermal decomposition : >180 °C

**10.5. Incompatible materials**

Materials to avoid : Impurities  
Heavy metal salts  
Acids  
alkalis  
Reducing agents  
Organic materials  
flammable substances

**10.6. Hazardous decomposition products**

Hazardous decomposition products : Fire may cause evolution of:  
Sulphur oxides

**11. Toxicological information****11.1. Information on toxicological effects****Acute toxicity****Oral**

:  
: Harmful if swallowed., Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**Inhalation**

:  
: May cause respiratory irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Irritation**

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**Skin**

Result : Skin contact may cause irritation. Prolonged and repeated exposure may cause pain and redness.  
May cause an allergic skin reaction.

**Eyes**

Result : Causes serious eye irritation.

**Sensitisation**

Result : May cause an allergic skin reaction.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Component: Disodium peroxodisulphate****CAS-No.****7775-27-1****Acute toxicity****Oral**

LD50 : 920 mg/kg (rat)

**Inhalation**

LC50 : > 5,1 mg/l (rat; 4 h)

**Dermal**

LC50 : > 10000 mg/kg (rat)

**12. Ecological information****12.1. Toxicity**

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<b>Component: Disodium peroxodisulphate</b>		<b>CAS-No.</b>
		<b>7775-27-1</b>
<b>Acute toxicity</b>		
<b>Fish</b>		
LC50	:	163 mg/l (96 h)
<b>Toxicity to daphnia and other aquatic invertebrates.</b>		
EC50	:	133 mg/l (Daphnia; 48 h)
<b>algae</b>		
IC10	:	33 mg/l (scenedesmus quadricauda; 96 h)
<b>Bacteria</b>		
EC10	:	36 mg/l (Pseudomonas putida) (Toxicity to bacteria)
EC10	:	1000 mg/l (Bacteria) (Toxicity to bacteria)

**12.2. Persistence and degradability**

<b>Persistence and degradability</b>	
<b>Biodegradability</b>	
Result	: no data available

**12.3. Bioaccumulative potential**

<b>Bioaccumulation</b>	
Result	: no data available

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**12.4. Mobility in soil****Mobility**

: no data available

**12.5. Results of PBT and vPvB assessment****Results of PBT and vPvB assessment**

Result : no data available

**12.6. Other adverse effects****Additional ecological information**Result : slightly water endangering  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.**Component: Disodium peroxodisulphate****CAS-No.****7775-27-1****Adsorbed organic bound halogens (AOX)**

Result : Product does not contain any organic halogens.

**13. Disposal considerations****13.1. Waste treatment methods**

Product : Disposal together with normal waste is not allowed. Do not let product enter drains. Contact waste disposal services.

Contaminated packaging : Dispose of contaminated packaging in the same way as the product.

European Waste : No waste code according to the European Waste Catalogue

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Catalogue Number	can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.
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**14. Transport information****14.1. UN number**

1505

**14.2. UN proper shipping name**

ADR	:	SODIUM PERSULPHATE
RID	:	SODIUM PERSULPHATE
IMDG	:	SODIUM PERSULPHATE

**14.3. Transport hazard class(es)**

ADR-Class (Labels; Classification Code; Hazard identification No; Tunnel restriction code)	:	5.1 5.1; O2; 50; (E)
RID-Class (Labels; Classification Code; Hazard identification No)	:	5.1 5.1; O2; 50
IMDG-Class (Labels; EmS)	:	5.1 5.1; F-A, S-Q

**14.4. Packaging group**

ADR	:	III
RID	:	III
IMDG	:	III

**14.5. Environmental hazards**

Labeling according to 5.2.1.8 ADR	:	no
Labeling according to 5.2.1.8 RID	:	no
Labeling according to 5.2.1.6.3 IMDG	:	no
Classification as environmentally hazardous according to 2.9.3 IMDG	:	no

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Classified as "P" according to 2.10 IMDG : no

**14.6. Special precautions for user**

Not applicable.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

IMDG : Not applicable.

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

WGK (DE) : WGK Identification Number: 1,352; WGK:1; slightly water endangering; WGK (DE); Classification according VwVwS of 17 May 1999, Annex 2

Major Accident Hazard Legislation : 3 Falls under the German StörfallV.

Other regulations : Occupational restrictions: Take note of Dir 92/85/EEC on the safety and health of pregnant workers at work and of Dir 94/33/EC on the protection of young people at work.

**15.2. Chemical Safety Assessment**

Currently we do not have any Information from our supplier about this.

**16. Other information****Full text of R-phrases referred to under sections 2 and 3.**

R 8	Contact with combustible material may cause fire.
R22	Harmful if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42/43	May cause sensitization by inhalation and skin contact.



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**Full text of H-Statements referred to under sections 2 and 3.**

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

**Further information**

Other information : The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

|| Indicates updated section.