

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

Version 3.1

Print Date 16.10.2011

Revision Date 07.04.2011

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

Trade name : Natriumpersulfat
 Substance name : Disodium peroxodisulphate
 CAS-No. : 7775-27-1
 EC-No. : 231-892-1

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			
Hazard class	Hazard category	Target Organs	Hazard statements

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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

Hazard symbols :



Signal word : Danger

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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:

II • Disodium peroxodisulphate

2.3. Other hazards

No other information is available.

3. Composition/information on ingredients
3.1. Substances

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Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)		Classification (67/548/EEC)
		Hazard class / Hazard category	Hazard statements	
Disodium peroxodisulphate				
CAS-No. : 7775-27-1	≤ 100	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
		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.
- 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

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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 CO₂.

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.

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.

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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.

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.

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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

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.

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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

Skin and body protection

Advice : Complete suit protecting against chemicals

Environmental exposure controls

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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

Vapour pressure : not applicable

Relative vapour density : not applicable

Density : 1,2 g/cm³ (20 °C)

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

Thermal decomposition : >180 °C

10.5. Incompatible materials

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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**Skin**

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

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Eyes

Result : Causes serious eye irritation.

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

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LC50 : 163 mg/l (96 h)

Toxicity to daphnia and other aquatic invertebrates.

EC50 : 133 mg/l (Daphnia; 48 h)

algae

IC10 : 33 mg/l (scenedesmus quadricauda; 96 h)

Bacteria

EC10 : 36 mg/l (Pseudomonas putida) (Toxicity to bacteria)

EC10 : 1000 mg/l (Bacteria) (Toxicity to bacteria)

12.2. Persistence and degradability**Persistence and degradability****Biodegradability**

Result : no data available

12.3. Bioaccumulative potential**Bioaccumulation**

Result : no data available

12.4. Mobility in soil**Mobility**

: no data available

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

14. Transport information

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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 : 5.1
(Labels; Classification Code; Hazard
identification No; Tunnel restriction code) 5.1; O2; 50; (E)
RID-Class : 5.1
(Labels; Classification Code; Hazard
identification No) 5.1; O2; 50
IMDG-Class : 5.1
(Labels; EmS) 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
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.

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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.

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.

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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.