

SAFETY DATA SHEET

Sodium Persulphate

Page 1
Issued: 07/06/2021
Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Identifier:

Chemical Name (EINECS): Sodium persulphate
IUPAC: Peroxydisulphuric acid, disodium salt
CAS Number: 7775-27-1
EINECS Number: 231-892-1
REACH Registration Number: 01-2119495975-15-xxxx

Relevant identified uses of the substance or mixture and uses advised against:

Identified use(s): Initiator for emulsion polymerizations, oxidising agent. Usage only in accordance with the identified usages as stipulated in the CSR/CSA.

Uses advised against: None known.

Company name: Nexchem Ltd
 Unit 3 Barshaw Park
 Leycroft Road
 Leicester
 LE4 1ET
 Tel: 0116 2311130
 24/7 Emergency Tel: 0800 246 1274
 Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008: 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.

Label elements: The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Labelling according to Regulation (EC) 1272/2008:

Hazard Pictograms:



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SAFETY DATA SHEET

Sodium Persulphate

Issued: 07/06/2021

Page 2

Signal Word: Danger

Contains: Peroxydisulphuric acid, disodium salt EINECS: 231-892-1

Hazard Statements:

- H272 May intensify fire; oxidizer.
- 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 products.
- P261: Avoid breathing dust.
- P264: Wash thoroughly after handling with plenty of water.
- P270: Do not eat, drink or smoke when using 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 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 so. Continue rinsing.
- P312: Call a POISON CENTRE or doctor/physician if you feel unwell.
- P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
- P362: Take off contaminated clothing and wash before reuse.
- P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

Other hazards: Further hazards were not determined with the current level of knowledge.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Product type: The product is a substance.

Range (%)

≥99.0

Substance

Peroxydisulphuric acid, disodium salt

CAS: 775-27-1, EINECS / ELINCS: 231-892-1

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SAFETY DATA SHEET

Sodium Persulphate

Issued: 07/06/2021

Page 3

Classification:

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

Comment on component parts:

SVHC: Substances of Very High Concern.
Substances are not contained or are below 0.1%.

For full text of H statements: See SECTION 16.

4. FIRST AID MEASURES

General information: Take off contaminated clothing and wash before reuse.
Inhalation: Ensure supply of fresh air. In the event of symptoms seek 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: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion: Get medical advice. Rinse out mouth and give plenty of water to drink. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed:

Allergic reactions. Cough. Nausea, vomiting. Headache. Shortness of breath.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Media: Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered. Water spray jet.

Unsuitable Extinguishing Media: Full water jet.

Special hazards arising from the substance or mixture:

Risk of formation of toxic pyrolysis products. Sulphur oxides (SO_x). Has a fire-promoting effect due to release of oxygen.

Advice for fire-fighters:

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.

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SAFETY DATA SHEET

Sodium Persulphate

Issued: 07/06/2021

Page 4

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Ensure adequate ventilation. Avoid dust formation. Use breathing apparatus if exposed to dust. Wear suitable protective equipment. For personal protection see SECTION 8. Remove persons to safety.
- Environmental precautions:** Knock down dust with water spray jet. Retain and dispose of contaminated wash water. Do not discharge into the drains.
- Methods and material for cleaning up:** Take up mechanically. Avoid raising dust. Dispose of absorbed material in accordance with the regulations.
- Reference to other sections:** See section 8+13.

7. HANDLING AND STORAGE

- Precautions for safe handling:** Use only in well-ventilated areas. Work under hood. Do not inhale substance. Provide vacuuming if dust raised. Avoid the formation and deposition of dust. Avoid contact with eyes and skin. Use personal protective equipment. 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. Take off contaminated clothing and wash before reuse.
- 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.
- Specific end use(s):** See product use, section 1.2.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Control parameters:** Not applicable.
- Exposure controls:**
- Additional advice on system design:** Ensure adequate ventilation on workstation. Pay attention to dust limit value (ACGHI-2011: 10 mg/m³ particle inhalable; 3 mg/m³ particle respirable). Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances. Generic Exposure Scenarios only in accordance with the identified usages as stipulated in the CSR/CSA.
- Hand protection:** The details concerned are recommendations. Please contact the glove supplier for further information. > 0,11 mm, Nitrile rubber, >480 min (EN 374-1/-2/-3).
- Eye protection:** Safety glasses. (EN 166:2001)

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SAFETY DATA SHEET

Sodium Persulphate

Issued: 07/06/2021

Page 5

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 handled. The resistance of this equipment 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. (DIN EN 143).
Thermal hazards:	No information available.
Delimitation and monitoring of the environmental exposition:	Comply with applicable environmental regulations limiting discharge to air, water and soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Form:	Solid, crystalline.
Colour:	White.
Odour:	Odourless.
Odour threshold:	Not applicable.
pH-value:	ca. 4.3 (250 g/l) (20°C)
pH-value [1%]:	No information available.
Boiling point [°C]:	No information available.
Flash point [°C]:	Not applicable.
Flammability (solid, gas) [°C]:	The product is not combustible.
Lower explosion limit:	Not applicable.
Upper explosion limit:	Not applicable.
Oxidising properties:	Yes.
Vapour pressure/gas pressure [kPa]:	Not applicable.
Density [g/ml]:	2.59 (20°C)
Bulk density [kg/m³]:	1200 - 1350 (20°C)
Solubility in water:	556 (20°C)
Partition coefficient [n-octanol/water]:	No information available.
Viscosity:	Not applicable.
Relative vapour density determined in air:	Not applicable.
Evaporation speed:	Not applicable.
Melting point [°C]:	No information available.
Autoignition temperature [°C]:	No information available.
Decomposition temperature [°C]:	>180

Other information: No information available.

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SAFETY DATA SHEET

Sodium Persulphate

Issued: 07/06/2021

Page 6

10. STABILITY AND REACTIVITY

- Reactivity:** See section 10.3. Can cause or intensify fire.
- Chemical stability:** Stable under normal ambient conditions (ambient temperature).
- 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 dust explosion in the presence of air.
- Conditions to avoid:** Strong heating. Reactions with damp air and moisture.
- Incompatible materials:** No information available.
- Hazardous decomposition products:** Oxygen.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity:

Substance: Peroxydisulphuric 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: Irritant. On basis of test data.

Skin corrosion/irritation: Irritant. On basis of test data.

Respiratory or skin sensitisation: May cause an allergic skin reaction.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
On basis of test data.

Specific target organ toxicity – single exposure:

May cause respiratory irritation. On basis of test data.

Specific target organ toxicity – repeated exposure:

Based on the available information, the classification criteria are not fulfilled.

Mutagenicity: (IUCLID) Ames test: negative. Based on the available information, the classification criteria are not fulfilled.

Reproduction toxicity: Based on the available information, the classification criteria are not fulfilled.

Carcinogenicity: Based on the available information, the classification criteria are not fulfilled.

General remarks: The toxicological information is based on the main components.

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SAFETY DATA SHEET

Sodium Persulphate

Issued: 07/06/2021

Page 7

12. ECOLOGICAL INFORMATION

Toxicity:

Substance: Peroxydisulphuric acid, disodium salt, CAS: 7775-27-1
LC50, (96h), Oncorhynchus mykiss: 771 mg/l (IUCLID)
EC50, (48h), Daphnia magna: 133 mg/l (IUCLID)

Persistence and degradability:

Behaviour in environment compartments: No information available.

Behaviour in sewage plant: Obtain approval of the relevant authorities before discharging into sewage treatment plants.

Biological degradability: The methods for determining the biological degradability are not applicable to inorganic substances.

Bioaccumulative potential: No information available.

Mobility in soil: No information available.

Results of PBT and vPvB: Based on all available information not to be classified as PBT or vPvB respectively.

Other adverse effects: Do not discharge product unmonitored into the environment.

13. DISPOSAL CONSIDERATIONS

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 consumer. 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): 06 03 14

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

UN Number: 1505
UN Proper shipping name: Sodium Persulphate 5.1 III
Classification code: O2
Transport category: 3
Tunnel restriction code: E
EMS: F-A, S-Q
ADR/RID/IMDG LQ: 5 kg



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SAFETY DATA SHEET

Sodium Persulphate

Issued: 07/06/2021

Page 8

15. REGULATORY INFORMATION

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

EEC Regulations: 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830; (EU) 2016/131

Transport Regulations: DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).

National Regulations (UK): EH40 Workplace exposure limits.

Observe employment restrictions for people: Observe employment restrictions for young people.
Observe employment restrictions for mothers-to-be and nursing mothers.

VOC (1999/13/CE): Not applicable.

Chemical safety assessment: For this substance a chemical safety assessment has been carried out.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Source of key data used to compile the data sheet: Supplier information.

Hazard Statements used in this document: 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.

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.

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SAFETY DATA SHEET

Sodium Persulphate

Issued: 07/06/2021

Page 9

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.

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.