

SODIUM PERSULPHATE CAS No 7775-27-1

MATERIAL SAFETY DATA SHEET SDS/MSDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers Product name	: So	odium Persulphate
	CAS-No.	: 77	775-27-1
1.2	Relevant identified uses of the substance or mixture and uses advised against		ubstance or mixture and uses advised against
	Identified uses	: La	aboratory chemicals, Industrial & for professional use only.
1.3	B Details of the supplier of the safety data sheet		ety data sheet
	Company	7/: Ne	ntral Drug House (P) Ltd 28 Vardaan House ew Delhi -110002 IDIA
	Telephone		1 11 49404040
	Email	: <u>ca</u>	re@cdhfinechemical.com
1.4	4 Emergency telephone number		
	Emergency Phone #	: +91	11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Oxidizing solids (Category 3), H272 Acute toxicity, Oral (Category 4), H302 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Respiratory sensitisation (Category 1), H334 Skin sensitisation (Category 1), H317 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

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

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal word



Hazard statement(s) H272 H302 H315

May intensify fire; oxidizer. Harmful if swallowed. Causes skin irritation.

H317 H319 H334 H335	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.
Precautionary statement(s)	
P220	Keep/Store away from clothing/ combustible materials.
P261	Avoid breathing dust.
P280	Wear protective gloves.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
Supplemental Hazard Statements	none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: Sodium peroxodisulfate
Formula Molecular weight CAS-No. EC-No.	: Na ₂ S ₂ O ₈ : 238.09 g/mol : 7775-27-1 : 231-892-1

Hazardous ingredients according to Regulation (EC) No 1272/2008 Component Classification

Disodium peroxodisulphate

souluin peroxouis	aipilato		
CAS-No.	7775-27-1	Ox. Sol. 3; Acute Tox. 4; Skin <= 100 %	
EC-No.	231-892-1	Irrit. 2; Eye Irrit. 2; Resp. Sens.	
		1; Skin Sens. 1; STOT SE 3;	
		H272, H302, H315, H319,	
		H334, H317, H335	

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available Concentration

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Sulphur oxides, Sodium oxides
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up Sweep up and shovel. V20 Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.Keep away from heat and sources of ignition. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Oxidizing hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
- 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	a)	Appearance	Form: Fine crystals and fragments Colour: white
	b)	Odour	odourless
	c)	Odour Threshold	No data available
	d)	рН	2.5 - 4.0
	e)	Melting point/freezing point	Decomposes before melting.
	f)	Initial boiling point and boiling range	Not applicable
	g)	Flash point	No data available
	h)	Evaporation rate	No data available
	i)	Flammability (solid, gas)	The product is not flammable.
	j)	Upper/lower flammability or explosive limits	No data available
	k)	Vapour pressure	< 0.0001 hPa
	I)	Vapour density	No data available
	m)	Relative density	1.68 g/cm3
	n)	Water solubility	730 g/l at 25 °C
	o)	Partition coefficient: n- octanol/water	No data available
	p)	Auto-ignition temperature	> 600 °C
	q)	Decomposition temperature	No data available
	r)	Viscosity	No data available
	s)	Explosive properties	Not explosive
	t)	Oxidizing properties	The substance or mixture is classified as oxidizing with the category 3.
9.2	Oth	ner safety information	

No data available

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No data available
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available
- **10.4** Conditions to avoid Exposure to moisture
- **10.5** Incompatible materials Alcohol, Strong reducing agents, Strong bases, Powdered metals, Organic materials
- Hazardous decomposition products
 Other decomposition products No data available
 Hazardous decomposition products formed under fire conditions. Sulphur oxides, Sodium oxides
 In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - female - 920 mg/kg(Disodium peroxodisulphate) LD50 Oral - Rat - male - 930 mg/kg(Disodium peroxodisulphate) LC50 Inhalation - Rat - > 5.1 mg/l(Disodium peroxodisulphate) Remarks: No adverse effect has been observed in acute toxicity tests. LD50 Dermal - Rabbit - > 10,000 mg/kg(Disodium peroxodisulphate)

Skin corrosion/irritation

largely based on human evidence(Disodium peroxodisulphate)

Serious eye damage/eye irritation

largely based on human evidence(Disodium peroxodisulphate)

Respiratory or skin sensitisation

Guinea pig(Disodium peroxodisulphate)
May cause allergic respiratory reaction.
(OECD Test Guideline 406)
Guinea pig(Disodium peroxodisulphate)
May cause allergic skin reaction.
(OECD Test Guideline 406)

Germ cell mutagenicity

Ames test(Disodium peroxodisulphate) S. typhimurium Histidine reversion (Ames)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available(Disodium peroxodisulphate)

Specific target organ toxicity - single exposure

Inhalation - May cause respiratory irritation. (Disodium peroxodisulphate)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available(Disodium peroxodisulphate)

Allergy, Repeated exposure may cause asthma.(Disodium peroxodisulphate)

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	LC50 - Oncorhynchus mykiss (rainbow trout) - 163 mg/l - 96 h(Disodium peroxodisulphate)
Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 133 mg/l - 48 h(Disodium peroxodisulphate)
Toxicity to algae	EC50 - Pseudokirchneriella subcapitata (green algae) - 116 mg/l - 72 h(Disodium peroxodisulphate) (OECD Test Guideline 201)

12.2 Persistence and degradability

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Bioaccumulation is unlikely.

12.4 Mobility in soil

No data available(Disodium peroxodisulphate)

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1	UN numb ADR/RID		IMDG: 1505	IATA: 1505
14.2	UN prope	er shipping name		
	ADR/RID: IMDG: IATA:	SODIUM PERSULPHA SODIUM PERSULPHA Sodium persulphate		
14.3	Transport ADR/RID:	hazard class(es) 5.1	IMDG: 5.1	IATA: 5.1
14.4	Packaging ADR/RID:		IMDG: III	IATA: III
14.5	Environm ADR/RID:	ental hazards no	IMDG Marine pollutant: no	IATA: no
14.6	Special pr No data av	ecautions for user vailable		

SECTION 15: Regulatory information

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
- **15.2 Chemical safety assessment** For this product a chemical safety assessment was not carried out

SECTION 16: Other information

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

H272	May intensify fire; oxidizer.
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

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.