

AnalytiChem GmbH

according to Regulation (EC) No 1907/2006

Natriump	eroxodisulfat	mind.	99%
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Revision date: 13.12.2022

Product code: 19897

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

1.1. Product identifier

Natriumperoxodisulfat mind. 99%

REACH Registration Number:	01-2119495975-15-XXXX
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

Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name:	AnalytiChem GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
e-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
e-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,
number:	Exposure, or Accident Call CHEMT	REC Day or Night Within USA and Canada:
	1-800-424-9300 Outside USA and C	Canada: +1 703-741-5970 (collect calls
	accepted)	

Further Information

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Ox. Sol. 3; H272 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:

Danger



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Hazard statements

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.

Precautionary statements

P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula:	Na2S2O8
Molecular weight:	238,11 g/mol

Hazardous components

CAS No	Chemical name		Quantity	
	EC No	C No Index No REACH No		
	Classification (Regulation (EC) No 1272/2008)			
7775-27-1	disodium peroxodisulphate		100 %	
	231-892-1 01-2119495975-15-XXXX			
	Ox. Sol. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3; H272 H302 H315 H319 H334 H317 H335			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. L	imits, M-factors and ATE	
7775-27-1	231-892-1	disodium peroxodisulphate	100 %
inhalation: LC50 = >= 2,95 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1200 mg/kg			

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Self-protection of the first aider



an analyti**chem** company

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After inhalation

Provide fresh air. Call a physician immediately.

After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

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

Cough Allergic reactions Irritant Dyspnoea Vomiting Gastrointestinal complaints Headache

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Non-combustible solids Oxidizing Danger of dust explosion. Hazardous combustion products In case of fire may be liberated: Sulphur oxides

5.3. Advice for firefighters

Avoid contact with skin, eyes and clothes. In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes.



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Remove persons to safety. Emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal. Take up carefully when dry. Take up dust-free and set down dust-free.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Handle and open container with care. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Avoid dust formation. Do not breathe dust. Read label before use.

Advice on protection against fire and explosion

Keep away from combustible material.

May intensify fire; oxidiser.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Further information on handling

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Draw up and observe skin protection programme.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and dry. Store in a place accessible by authorized persons only.

Hints on joint storage

Keep away from combustible material.



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Further information on storage conditions

storage temperature +15°C - +25°C

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
7775-27-1	Persulphate salts, inorganic; Sodium persulphate	-	0.1		TWA (8 h)	

DNEL/DMEL values

CAS No	Substance			
DNEL type Exposure route			Effect	Value
7775-27-1	disodium peroxodisulphate			
Worker DNEL	, long-term	inhalation	systemic	2,06 mg/m ³
Worker DNEL	, acute	inhalation	systemic	590 mg/m³
Worker DNEL	, long-term	inhalation	local	2,06 mg/m ³
Worker DNEL	long-term	dermal	systemic	18,2 mg/kg bw/day
Worker DNEL	, acute	dermal	systemic	400 mg/kg bw/day
Worker DNEL	, long-term	dermal	local	0,102 mg/cm ²
Worker DNEL	, acute	dermal	local	2,248 mg/cm ²
Consumer DN	EL, long-term	inhalation	systemic	1,03 mg/m ³
Consumer DN	EL, acute	inhalation	systemic	295 mg/m³
Consumer DN	EL, long-term	inhalation	local	1,03 mg/m ³
Consumer DN	EL, acute	inhalation	local	295 mg/m³
Consumer DN	EL, long-term	dermal	systemic	9,1 mg/kg bw/day
Consumer DN	EL, acute	dermal	systemic	200 mg/kg bw/day
Consumer DN	EL, long-term	dermal	local	0,051 mg/cm ²
Consumer DN	EL, acute	dermal	local	1,124 mg/cm ²
Consumer DN	EL, long-term	oral	systemic	9,1 mg/kg bw/day
Consumer DN	EL, acute	oral	systemic	30 mg/kg bw/day



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PNEC values

CAS No	Substance		
Environment	Environmental compartment Value		
7775-27-1	disodium peroxodisulphate		
Freshwater		0,076 mg/l	
Freshwater (intermittent releases) 0,763 mg/l		0,763 mg/l	
Marine water 0,011 mg/		0,011 mg/l	
Freshwater sediment 0,275		0,275 mg/kg	
Marine sediment		0,04 mg/kg	
Micro-organisms in sewage treatment plants (STP)		3,6 mg/l	
Soil		0,015 mg/kg	

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection

Suitable eye protection: goggles.

Hand protection

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact

Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing. Wash hands before breaks and after work.

Respiratory protection

Respiratory protection necessary at: dust formation Filtering device with filter or ventilator filtering device of type: P2

Environmental exposure controls

Do not allow to enter into surface water or drains.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and che	emical properties	
Physical state:	solid	
Colour:	white	
Odour:	odourless	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and		No data available
boiling range:		
Flammability		
Solid/liquid:		not determined
Gas:		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		Х
Auto-ignition temperature:		No data available
Decomposition temperature:		~180 °C
pH-Value (at 20 °C):		3,5 - 3,8 (100 g/l)
Viscosity / kinematic:		No data available
Water solubility:		545 g/L
(at 20 °C)		0
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		No data available
Vapour pressure:		No data available
Vapour pressure:		No data available
Density (at 20 °C):		1,2 g/cm³
Bulk density:		~1150 kg/m³
Relative vapour density:		not determined
9.2. Other information		
Information with regard to physical haz	zard classes	
Explosive properties		
Danger of dust explosion.		
Sustaining combustion:		No data available
Self-ignition temperature		
Solid:		not determined
Gas:		not applicable
Oxidizing properties		
The product is: oxidising, Oxidising. Oxidizing solids, Category 3		
Other safety characteristics		
Evaporation rate:		not determined
Solvent separation test:		No data available
Solvent content:		No data available
Solid content:		100,00 %
Sublimation point:		No data available
Softening point:		No data available
Pour point:		No data available
:		No data available
Viscosity / dynamic:		No data available
Flow time:		No data available



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Further Information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Material, oxygen-rich, Oxidising Oxidising agent Danger of dust explosion.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Reducing agent, Combustible substance Alcohols, Acid Base

10.4. Conditions to avoid

Heat Humidity

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

No data available

Further information

No data available

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicocinetics, metabolism and distribution

No data available

Acute toxicity

Harmful if swallowed. Pulmonary oedema

CAS No Chemical name

OAO NO	onomical name							
	Exposure route	Dose		Species	Source	Method		
7775-27-1	disodium peroxodisulphate							
	oral	LD50 mg/kg	1200	Rat	Study report (1979)	OECD Guideline 401		
	dermal	LD50 mg/kg	> 2000	Rat	Study report (1991)	EPA OPP 81-2		
	inhalation (4 h) dust/mist	LC50 mg/l	>= 2,95	Rat	Study report (1989)	EPA OPP 81-3		

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (disodium peroxodisulphate) May cause an allergic skin reaction. (disodium peroxodisulphate)

Carcinogenic/mutagenic/toxic effects for reproduction



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Based on available data, the clas	sification criteria are not met.	
STOT-single exposure May cause respiratory irritation. (disodium peroxodisulphate)	
STOT-repeated exposure Based on available data, the clas	sification criteria are not met.	
Aspiration hazard Based on available data, the clas	sification criteria are not met.	
Specific effects in experiment on an No data available	n animal	
Additional information on tests No data available		
Practical experience No data available		
11.2. Information on other hazards		
Other information No data available		
Further information		
Cough Allergic reactions		
Irritant Dyspnoea		
Vomiting		
Gastrointestinal complaints		
Headache		

12.1. Toxicity

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
7775-27-1	disodium peroxodisulphate						
	Acute fish toxicity	LC50 mg/l	76,3	96 h	Oncorhynchus mykiss	Study report (1993)	other: FIFRA Guideline 72-1 of the Pesti
	Acute algae toxicity	ErC50	136 mg/l		Phaeodactylum tricornutum	Study report (1992)	OECD Guideline 201
	Acute crustacea toxicity	EC50	120 mg/l	48 h	Daphnia magna	Study report (1993)	other: FIFRA Guideline 72-2 of the Pesti

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

No data available 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.



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12.7. Other adverse effects

No data available

Further information

Avoid release to the environment. Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Dispose of waste according to applicable legislation. Do not mix with other wastes. Do not empty into drains.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

Lanu transport (ADR/RID)	
14.1. UN number or ID number:	UN 1505
14.2. UN proper shipping name:	SODIUM PERSULPHATE
14.3. Transport hazard class(es):	5.1
14.4. Packing group:	111
Hazard label:	5.1
Classification code:	O2
Limited quantity:	5 kg
Excepted quantity:	E1
Transport category:	3
Hazard No:	50
Tunnel restriction code:	E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 1505
14.2. UN proper shipping name:	SODIUM PERSULPHATE
14.3. Transport hazard class(es):	5.1
14.4. Packing group:	III
Hazard label:	5.1
Classification code:	02
Limited quantity:	5 kg
Excepted quantity:	E1
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1505
14.2. UN proper shipping name:	SODIUM PERSULPHATE
14.3. Transport hazard class(es):	5.1
14.4. Packing group:	III
Hazard label:	5.1
Special Provisions:	-
Limited quantity:	5 kg
Excepted quantity:	E1
EmS:	F-A, S-Q
Air transport (ICAO TI/IATA DCP)	

Air transport (ICAO-TI/IATA-DGR)



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14.1. UN number or ID nun	nber:	UN 1505					
14.2. UN proper shipping r		SODIUM PERSULPH	HATE				
14.3. Transport hazard cla		5.1					
14.4. Packing group:		111					
Hazard label:		5.1					
Special Provisions:		A803					
Limited quantity Passenger		10 kg					
Passenger LQ:		Y546					
Excepted quantity:		E1					
IATA-packing instructions -	Passenger:		559				
IATA-max. quantity - Passe			25 kg				
IATA-packing instructions -			563				
IATA-max. quantity - Cargo):		100 kg				
14.5. Environmental hazards							
ENVIRONMENTALLY HAZ	ARDOUS:	No					
14.6. Special precautions for	user						
Warning: Oxidising sub							
14.7. Maritime transport in bu	Ik according to	IMO instruments					
not applicable							
SECTION 15: Regulatory ir	oformation						
15.1. Safety, health and environ	onmental regula	ations/legislation spe	cific for the substance or mixture				
EU regulatory information	l						
Information according to 20)12/18/EU	P8 OXIDISING LIQU	IDS AND SOLIDS				
(SEVESO III):							
National regulatory inform	nation						
Employment restrictions:		Observe restrictions	to employment for juveniles according to the '	juvenile			
			eline' (94/33/EC). Observe employment restric				
			Protection Directive (92/85/EEC) for expectan				
		nursing mothers.	······································				
Water hazard class (D):		1 - slightly hazardous to water					
SECTION 16: Other inform	ation						
Abbreviations and acrony							
ADR: Accord européen							
			of Dangerous Goods by Road)				
IMDG: International Ma		•					
IATA: International Air 1							
GHS: Globally Harmonized System of Classification and Labelling of Chemicals							
EINECS: European Inventory of Existing Commercial Chemical Substances							
ELINCS: European List of Notified Chemical Substances							
CAS: Chemical Abstracts Service							
LC50: Lethal concentration, 50%							
LD50: Lethal dose, 50%							
Relevant H and EUH statements (number and full text)							
H317 N	May cause an allergic skin reaction.						

- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



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H335

May cause respiratory irritation.