

# SAFETY DATA SHEET

Sodium peroxodisulfate solution

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product Details

**Product name** : Sodium peroxodisulfate solution  
**Trade name** : Sodium peroxodisulfate solution, XXg/L  
**Chemical name** : Sodium peroxodisulfate, Sodium persulfate  
**Manufacturer's code** : C-SA-B04-30XXX  
**Identified uses** : Laboratory chemicals

### 1.2 Company Identification

**Manufacturer's name** : Centronics Sdn Bhd  
**Distributor's name & address** : Centronics Sdn Bhd  
 Centronics Systems & Services Sdn Bhd  
 No. 23, Jalan Sungai Jerluh 32/196  
 Seksyen 32, Bukit Kemuning  
 40460 Shah Alam, SEL  
**Emergency tel. no.** : 603-5525 2568  
**Fax. no.** : 603-5131 5668

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification based on CLASS 2013  
 Oxidizing solids (Category 3), H272  
 Acute toxicity, Oral (Category 4), H302  
 Skin corrosion/irritation (Category 2), H315  
 Respiratory sensitization (Category 1), H334  
 Skin sensitization (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 to CLASS regulations 2013

Pictogram



Signal word

**Danger**

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## 2.3 Hazard statements

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

## 2.4 Precautionary statements

### Prevention

- P210 Keep away from heat.
- P220 Keep/Store away from clothing/ combustible materials.
- P221 Take any precaution to avoid mixing with combustibles.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
- P280 Wear protective gloves/ eye protection/ face protection.
- P285 In case of inadequate ventilation wear respiratory protection.

### Response

- P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

## 2.5 Other hazards

None

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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### Mixtures

Chemical Name	CAS #	Proportion Min. (%)	Proportion Max. (%)
Sodium peroxodisulfate, Sodium persulfate	7775-27-1	1.0	30.0
Water	7732-18-5	70.0	99.0

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## SECTION 4: FIRST AID MEASURES

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### 4.1 Description of first aid measures

#### General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air. Call in physician.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). 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

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## SECTION 5: FIRE-FIGHTING MEASURES

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### 5.1 Extinguishing media

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

### 5.2 Special hazards arising from the substance or mixture

Sulfur oxides

Sodium oxides

Not combustible.

Has a fire-promoting effect due to release of oxygen.

Ambient fire may liberate hazardous vapours.

### 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

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## 5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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### 6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. 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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: HANDLING AND STORAGE

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### 7.1 Precautions for safe handling

#### Advice on safe handling

Work under hood. Do not inhale substance/mixture.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition.

#### Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Tightly closed. Keep locked up or in an area accessible only to qualified or authorized persons. Do not store near combustible materials.

### 7.3 Specific end use(s)

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

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1 Control parameters

Ingredients with workplace control parameters

Component	CAS-No	Value	Control parameters	Basis
Sodium peroxodisulfate	7775-27-1	TWA	0.1 mg/m <sup>3</sup>	Malaysian Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

### 8.2 Exposure controls

#### Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

#### Personal protective equipment

##### Eye/face protection

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

##### Body protection

Protective clothing

##### Control of environment exposure.

Do not let product enter drains.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### Information on basic physical and chemical properties

<b>Appearance</b>	: Form: clear, liquid Colour: colourless
<b>Odour</b>	: Odourless
<b>pH</b>	: No data available
<b>Boiling Point</b>	: ~ 101 °C/ 214 °F
<b>Melting Point</b>	: ~ 1 °C/ 30 °F
<b>Vapour Pressure (mm of Hg at 25°C )</b>	: 23.702 mm Hg / 3.16 kPa at 25 °C / 77 °F
<b>Water solubility</b>	: >1000 mg/L, water solubility temperature; 25 °C / 77 °F
<b>Solubility in other solvents</b>	: No data available
<b>Evaporation Rate</b>	: 1.03 (water = 1)

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<b>Relative Vapour Density</b>	: 0.62
<b>Specific Gravity</b>	: No data available
<b>Partition Coefficient (n-octanol/water)</b>	: No data available
<b>Soil Organic Carbon-Water Partition Coefficient</b>	: No data available
<b>Autoignition temperature</b>	: No data available
<b>Decomposition temperature</b>	: No data available
<b>Dynamic viscosity</b>	: No data available
<b>Kinematic viscosity</b>	: No data available
<b>Explosion limit</b>	: Upper; No data available Lower; No data available
<b>Flash point</b>	: No data available
<b>Flammability</b>	: Upper; No data available Lower; No data available
<b>Oxidizing properties</b>	: No data available
<b>Bulk density</b>	: No data available
<b>Metal corrosivity rate (Steel)</b>	: No data available
<b>(Aluminium)</b>	: No data available

## Volatile Organic Compounds (VOC)

Chemical name	CAS No	Volatile organic compound content	CAA (Clean Air Act)
Sodium persulfate	7775-27-1	N/A	-

## Other safety information

No data available

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## SECTION 10: STABILITY AND REACTIVITY

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### 10.1 Reactivity

No data available

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Violent reactions possible with:

- Reducing agents
- combustible substances
- Alcohols
- Strong acids
- Bases
- Heavy metal salts

### 10.4 Conditions to avoid

Exposure to moisture.  
 No information available

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## 10.5 Incompatible materials

No data available

## 10.6 Hazardous decomposition products

In the event of fire: see section 5

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### Mixture

#### Acute toxicity

LD50 Oral - Rat - male - 1,200 mg/kg  
(OECD Test Guideline 401)

LC50 Inhalation - Rat - 4 h - > 5.1 mg/l  
(Regulation (EC) No. 440/2008, Annex, B.2)

LD50 Dermal - Rat - male and female - > 2,000 mg/kg  
(US-EPA)

#### Skin corrosion/irritation

Skin - Rabbit

Result: Skin irritation - 4 h  
(OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation  
(OECD Test Guideline 405)

#### Respiratory or skin sensitization

Result: positive

May cause allergic respiratory and skin reactions  
(OECD Test Guideline 406)

#### Germ cell mutagenicity

Test Type: Ames test

Test system: S. typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

Remarks: (ECHA)

Test Type: Ames test

Test system: E. coli

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: Micronucleus test

Species: Mouse

Application Route: Intraperitoneal

Method: OECD Test Guideline 474

Result: negative

Test Type: unscheduled DNA synthesis assay

Species: Rat

Application Route: Oral

Result: negative

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No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

Inhalation - May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Additional Information**

Repeated dose toxicity - Rat - male and female - Oral - 90 d - NOAEL (No observed adverse effect level) - 91 mg/kg

RTECS: SE0525000

Allergy, Repeated exposure may cause asthma.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Systemic effects:

Nausea

Vomiting

Headache

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**12.1 Toxicity**

Toxicity to fish

static test LC50 - *Oncorhynchus mykiss* (rainbow trout) - 76.3 mg/l

- 96 h

Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates

static test EC50 - *Daphnia magna* (Water flea) - 120 mg/l - 48 h

Remarks: (ECHA)

Toxicity to algae

static test EC50 - *Phaeodactylum tricornutum* - 136 mg/l - 72 h

(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.

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## 12.4 Mobility in soil

No data available

## 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 12.6 Other adverse effects

No data available

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## SECTION 13: DISPOSAL CONSIDERATIONS

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### 13.1 Waste treatment methods

#### Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions. According to Quality Environment Regulation (Scheduled Waste) 2005, waste need to be sent to designated premise for recycle, treatment or disposal. Please contact Kualiti Alam for waste classification and correct disposal method.

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## SECTION 14: TRANSPORT INFORMATION

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**DOT** Not regulated  
 Emergency response guide no 140

**TDG** Not regulated

**IATA** Not regulated  
 Emergency response guide no 140

**IMDG** Not regulated

#### Special precautions for user

No data available

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## SECTION 15: REGULATORY INFORMATION

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

#### Notification status

**DSL** : All components of this product are on the Canadian DSL  
**ENCS** : On the inventory, or in compliance with the inventory  
**ISHL** : On the inventory, or in compliance with the inventory  
**KECI** : On the inventory, or in compliance with the inventory  
**NZIoC** : On the inventory, or in compliance with the inventory  
**PICCS** : On the inventory, or in compliance with the inventory

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## SECTION 16: OTHER INFORMATION

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### 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.

**H334** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**H335** May cause respiratory irritation.

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Revision of the SDS: Revision 0

### Disclaimer:

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**END OF SAFETY DATASHEET**