



SAFETY DATA SHEET

100%

SODIUM PERCARBONATE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER

Product name: Sodium Percarbonate
Product No.: SOPE
CAS-No.: 15630-89-4
REACH: 01-2119457268-30
EC No.: 239-707-6
Synonym: Sodium Percarbonate (coated), Peroxy Sodium Carbonate, Sodium Carbonate Peroxide, Sodium Peroxyhydrate
Chemical Formula: $\text{Na}_2\text{CO}_3 * 1.5\text{H}_2\text{O}_2$

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Recommended use: Manufacture of biocides (disinfectants and pest control products)

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

HD Chemicals LTD
UNIT 9 Scott Business Park
PL2 2PB Plymouth UK

Contact Person responsible for SDS: Mr Peter Konefal, e-mail: contact@hdchemicals.co.uk

SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification 67/548/EEC: O, Xn Oxidising, Harmful R8, R22, R41
Classification – EC 1272/2008: Oxidizing solids; Category 2 (H272)
Acute toxicity, Oral; Category 4 (H302)
Serious eye damage; Category 1 (H318)



2.2. LABEL ELEMENTS



SIGNAL WORDS

Danger

RISK PHRASES

- R8 Contact with combustible material may cause fire
R22 Harmful if swallowed
R41 Risk of serious damage to eye

HAZARD PHRASES

- H272 May intensify fire; oxidizer
H302 Harmful if swallowed
H318 Causes serious eye damage

PROTECTION PHRASES

- P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking
P221 Take any precaution to avoid mixing with combustibles
P280 Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 Immediately call a doctor/ physician
P501 Dispose of contents/container to comply with local, state and federal regulations

SAFETY PHRASES

None

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

67/548/EEC/1999/45/EC

Composition information – main constituents

Substance name	Mol. Formula	REACH	Typical conc. (%w/w)	EINECS No.	CAS-No.	Classification
Sodium Percarbonate	Na ₂ CO ₃ * 1.5H ₂ O ₂	01- 2119457268- 30	100%	239-707-6	15630-89- 4	O, Xn Oxidising, Harmful R8, R22, R41

EC 1272/2008

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SECTION 4: FIRST AID MEASURES**4.1. DESCRIPTION OF FIRST AID MEASURES**

First-aid measures general: Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation: Harmful by inhalation. Inhalation may cause nausea and vomiting. May cause dizziness and headache. Prolonged or repeated exposure may cause sore throat, nose bleeds and chronic bronchitis. In case of accident by inhalation: remove casualty to fresh air and keep at rest. Seek medical attention.

Ingestion: DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label. Ingestion may cause bloating of stomach, nausea, vomiting and diarrhea. Severe irritation of the mouth, throat, esophagus and stomach. Seek medical attention.

Skin contact: May cause irritation to skin. May cause dermatitis. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.



Eye contact: May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Inhalation: Harmful by inhalation. Nausea and Vomiting. Also may cause dizziness and headache.

Ingestion: Harmful if swallowed.

Skin contact: May cause irritation and dermatitis to skin.

Eye contact: May cause serious irritation to eyes.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Notes to Physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media: Water. Do NOT use any other substances.

Unsuitable extinguishing media: No unsuitable extinguishing media known.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Burning produces irritating, toxic and obnoxious fumes. Not combustible. May decompose slowly if local heating up above 50°C. Sodium carbonates and hydrogenium peroxide may be formed in fire conditions. In case of fire carbon monoxide and carbon dioxide, NaOx can be released.

5.3. ADVICE FOR FIRE-FIGHTERS

Wear self-contained breathing apparatus for fire-fighting if necessary and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Ensure adequate ventilation of the working area. Avoid contact with skin and eyes. Avoid formation of dust. Do not breathe dust. Wear suitable protective equipment.



6.2. ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Sweep up and shovel. 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.

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. Keep away from clothing and other combustible materials. For precautions see section 2.2.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks and flame. Avoid moisture and direct sunlight. Do not store near combustible materials.

7.3. SPECIFIC END USE(S)

See section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS/EXPOSURE GUIDELINES

Occupational Exposure Limit Values (Sodium Percarbonate) GB:

CAS NO	Exposure limit	Value	Source	Name of Agent
15630-89-4	Respirable fraction	4	EH40/2005	dust
15630-89-4	Inhalable fraction	10	EH40/2005	dust

Engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the working day.



Protective equipment: Use protective gloves and long sleeved clothing. Face shield and safety glasses.



PROTECTION WEAR



HAND PROTECTION



EYE PROTECTION



DUST MASK

Respiratory equipment: Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin and body protection: Wear protective gloves and long sleeved clothing.

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. Protective gloves should conform with the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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.

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).

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Granular solid
Colour:	White
Odour:	Odourless
Initial boiling point (°C):	Not available
Melting point (°C):	60 °C
Freezing point:	No data available
Relative density:	2.01 – 2.16g/cm ³ (water = 1 at 20°C)
Specific gravity / density:	Not available
Vapour density:	Not available
Vapour pressure:	Not available
Flash point (°C):	Not applicable
Molecular mass:	157,01g/mol
Auto-ignition temperature:	Not applicable
Oxidizing properties:	Oxidising solid
Decomposition temperature:	Not available
Molecular formula:	Na ₂ CO ₃ * 1.5H ₂ O ₂

SECTION 10: STABILITY AND REACTIVITY**10.1. REACTIVITY**

Reactive; oxidising agent.

10.2. CHEMICAL STABILITY

Stable under normal temperature conditions.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

Organic materials. metal ions, metals, alkalis, reducing agents.



10.4. CONDITIONS TO AVOID

Keep away from heat, sparks and flame. Avoid moisture and direct sunlight. Do not store near combustible materials.

10.5. INCOMPATIBLE MATERIALS

Avoid strong acids, alkalis, oxidising agents. Strong reducing agents. Inorganic salts. Water, steam, water mixtures. Flammable materials.

10.6. HAZARDOUS DECOMPOSITION

Wetting and decomposition will produce oxygen and heat and will support or accelerate combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

TOXIC DOSE	LD50 Oral – Rat – 1034 mg/kg LD50 Dermal – rabbit – > 2000mg/kg
Inhalation:	Harmful by inhalation. Nausea and Vomiting. Also may cause dizziness and headache.
Ingestion:	Harmful if swallowed.
Skin contact:	May cause irritation and dermatitis to skin.
Eye contact:	May cause serious irritation to eyes.

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Aquatic Toxicity:	LC50/96h: Fish, 70.7mg/l EC50/48h: Daphnia, 4.9mg/l EC50/140h: Anabaeba sp, 8mg/l
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12.2. PERSISTENCE AND DEGRADABILITY

Biodegradability does not apply to inorganic compounds.

**12.3. BIOACCUMULATIVE POTENTIAL**

The product does not contain any substances expected to be bioaccumulating.

12.4. MOBILITY

Highly motile in soil.

12.5. RESULTS OF PBT AND vPvB ASSESSMENT

No data available.

12.6. OTHER ADVERSE EFFECTS

This product is toxic to aquatic life. Do not allow product to enter drains and do not allow runoff water to enter sewers or drains.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal recommendations: Dispose of in compliance with all local and national regulations. Contact a licensed waste disposal company. Dispose of waste in accordance with environmental legislation.

Should not be released into the environment. Do not allow product to enter drains. Do not allow runoff water to enter sewers or drains.

Uncleaned packaging: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION**IMDG**

UN number	3378
UN proper shipping name	Sodium Carbonate Peroxyhydrate
Transport hazard class(es)	5.1
Packing group	II

ADR/RID

UN number	3378
UN proper shipping name	Sodium Carbonate Peroxyhydrate
Transport hazard class(es)	5.1
Packing group	II

**IATA**

UN number	3378
UN proper shipping name	Sodium Carbonate Peroxyhydrate
Transport hazard class(es)	5.1
Packing group	II

SECTION 15: REGULATORY INFORMATION**15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE N**

1. Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments
2. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716)
3. Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply
4. REACH – Exempted in accordance with Annex V.7
5. Workplace Exposure Limits 2005 (EH40)

15.2 CHEMICAL SAFETY ASSESSMENT

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION**General information**

The information contained in this safety data sheet is provided in accordance with the requirements of the regulations. The product should not be used for purposes other than those shown in section 1 without first referring to the supplier and obtaining written handling instruction. As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

Revision Comments

This information is provided in a revised format to that previously produced.

Revision Date: 01/10/2018

Revision: 01

Safety Data Sheet Status Approved.



Date printed 01/10/2018

Signature Initials P.K.

DISCLAIMER:

If this product is re-distributed and re-formulated for sale, details of its hazards and recommended methods for safe handling must be passed to customers. Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by a work activity using this product is undertaken before this product is used.

NOTE:

The information contained in this Safety Data Sheet does not constitute the users own assessment of workplace risk as required by other Health & Safety Legislation (e.g. the Health and Safety at Work Act,1974;the control of Substances Hazardous to Health Regulations,1988). The data given here is based on current knowledge and experience. The purpose of this data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.