

Product name: Oxygen Bleach B-3**Date prepared :** Nov 01, 2021**Date revised :** -**Revision No :** 0

1. IDENTIFICATION OF THE HAZARDOUS CHEMICAL AND OF THE SUPPLIER

Product name Oxygen Bleach B-3

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Negeri Sembilan.
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06-6771337 / 6771327
Emergency Telephone Number :
Dial 999, Bomba 994
(Please refer to the local emergency contact)

2. HAZARDS IDENTIFICATION

Physical Hazard

Oxidizing solids Category 2

Health Hazard

Acute toxicity (oral) Category 4
Serious eye damage or eye irritation Category 1

Label elements

Hazard pictograms :



Signal word : Danger

Hazard Statements

H272 May intensify fire; oxidizer
H302 Harmful if swallow
H318 Causes severe eye damage

Product name: Oxygen Bleach B-3**Date prepared :** Nov 01, 2021**Date revised :** -**Revision No :** 0**Precautionary Statements**

- Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- Keep/Store away from clothing/ flammable/ combustible materials.
- Wear protective gloves/protective clothing/eye protection.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- In case of fire: Use water for extinction.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Store in a dry place at temperatures not exceeding 40°C/ 104°F.

3. COMPOSITION AND INFORMATION OF THE INGREDIENTS OF THE HAZARDOUS CHEMICAL

<u>Chemical Name</u>	<u>CAS No</u>	<u>Composition</u>
Sodium percarbonate	15630-89-4	> 90%

4. FIRST-AID MEASURES**Skin contact**

In case of repeated contact, risk of dermatitis. Slight irritation. Rinse with water and soap. Remove contaminated clothing and shoes. Consult a doctor if irritation persists.

Eye contact

Severe eye irritation. In case of contact with eyes, flush with copious amount of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical advice.

Ingestion

Bloating of stomach, nausea, vomiting and diarrhea. Severe irritation of the mouth, throat. Esophagus and stomach. Rinse mouth with water. Drink water. Do not induce vomiting. Seek medical advice.

Inhalation

In case of prolonged exposure, risk of sore throat, nose bleeds and chronic bronchitis. At high concentrations-may cause cough. Slight nose and throat irritation. Go to a well-ventilated-area-keep still and wrapped up. If necessary seek medical advice.

5. FIRE-FIGHTING MEASURES

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Suitable extinguish media

Water. Do not use any other substances.

Specific hazards in case of fire

Not combustible. May decompose slowly if local heating up above 50°C. Formation of Sodium Carbonate and Hydrogenium peroxide. Can be released in case of fire: Carbon monoxide and carbon dioxide, NaOx.

Special protective equipment for firefighters

Wear self-contained breathing apparatus. Wear suitable protective clothing. If safe to do so, remove product to a safe area.

Additional Information

Hazchem-Code: 1Y. Cool endangered containers with water jetspray. Do not allow fire water to penetrate into surface or ground water.

6. ACCIDENTAL RELEASE MEASURES

Personal precaution, protective equipment and emergency procedures

: Wear personal protective equipment. Avoid generation of dust. Do not breathe dust. Provide adequate ventilation. Avoid contact with skin and eyes.

Environmental precautions

: Do not allow to penetrate soil, waterbodies or drains.

Methods for cleaning up

: Take up dust-free and set down dust-free. Place in appropriate containers for disposal.

7. HANDLING AND STORAGE

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Handling

- : Avoid heat-contamination with acids and reduction agents.
- : Do not spread dust.
- : Use adequate dust extraction systems.
- : Avoid any contact with water or humidity.
- : Avoid contact with wet or hot air.
- : Keep the product away from acids and bases to avoid decomposition.
- : Provide emergency on-site eyewash and showers.
- : Do not return to original container-risk of decomposition.
- : Clean and dry process pipes and equipment before using the product.

Storage

Requirements for storerooms and containers:

- : Store in a dry, clean and fresh area (temperature below 35°C), protected from heat, sunlight and humidity.
- : Avoid contamination with incompatible materials or decomposition catalysts.
- : Due to decomposition, overpressure may occur in closed containers.
- : Store in cold, dry, clean, well, ventilated areas away from combustible or incompatible materials and sources of heat.
- : Tanks, containers or receptacles should be equipped with an adequate ventilation system.
- : Containers should be used for the product only.
- : L304 or L316 stainless steel.
- : High-density polyethylene.
- : Polypropylene.
- : PVC
- : Glass.
- : Consult if any other material.

Information about storage in one common storage facility

Do not store together with highly inflammable or combustible materials.

Storage class

5.1 A = Oxidizing substances

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Appropriate engineering control

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Provide emergency on-site eyewash and showers.

Management concentrations

Not known

Control Parameter

A control parameter has not been set.

Personal protection

Wear personal protective equipment as needed.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance****Physical state**

Solid

Color

White

Odor

Odourless

pH (in water solution)

10 at 20°C, solution at 1,5 %

Solubility in water

at 20°C: 150 g/L

Melting point / melting range

Decomposes at high temperatures

Self-accelerating decomposition

> 60°C

Molecular weight

154.01 g/mol

Oxidizing properties

Oxidizing

10. STABILITY AND REACTIVITY**Reactivity**

Reactive and oxidizing agent

Chemical stability

Stable at room temperature

Conditions to avoid

Moisture, warmth, protect from light.

Possibility of hazardous reactions

Metals, metallic ions, alkalis, reducing agents and organic matter (such as alcohol or terpenes) may produce self-accelerated thermal decomposition.

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Avoid acids, alkalis and reducing agents.

Avoid decomposition catalysts (the majority of metals and their salts).

Avoid combustible, flammable and organic materials.

Hazardous decomposition products

May decompose slowly if local heating up above 50 °C. Formation of: Sodium carbonate and hydrogenium peroxide.

Can be released in case of fire: Carbon monoxide and carbon dioxide, NaOx.

Additional information: Product is stable under normal conditions.

11. TOXICOLOGICAL INFORMATION**Acute toxicity****Inhalation**

Inhaled sodium percarbonate will dissociate into sodium carbonate and hydrogen peroxide in the respiratory tract.

Acute inhalation toxicity: LC50, 4h, Rat = > 170 mg/m³ Hydrogen Peroxide

Acute inhalation toxicity: LC50, Rat 1200 mg/m³ Sodium carbonate.

Ingestion

Big quantities may cause vomiting and diarrhea.

Acute oral toxicity: LD50,-, Rat = 1034 mg/kg/bw

Skin contact

Acute dermal toxicity.: LD50, 24h, Rabbit = >2000mg/kg/bw

Skin corrosion/irritation

No Data Available

Serious eye damage/eye irritation

Severity irritating (rabbit)

Respiratory sensitization/skin sensitization

Not sensitizing

Mutagenicity

The product contains a peroxygen group. In vitro- it gives a positive result in mutagenicity tests. In the presence of metabolic systems, there is no mutagenic effect.

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No Data Available

Reproductive toxicity

No Data Available

Specific target organ/systemic toxicity following single exposure

No Data Available

Specific target organs/systemic toxicity following repeated exposure

No Data Available

Aspiration hazard

No Data Available

Teratogenicity

No Data Available

Metabolism

No Data Available

12. ECOLOGICAL INFORMATION**Ecotoxicity**

The product is toxic for aquatic organisms. Nevertheless, the risk to the environment is limited due to the product properties: - No bioaccumulative product, -Abiotic degradation, -Toxicity of degradation products is low. In the aquatic environment, Sodium Percarbonate rapidly degrades leading to the formation of Sodium Carbonate and Hydrogen Peroxide and the latter also decomposes into oxygen and water.

Persistence and degradability

Biodegradability does not apply to inorganic compounds.

Bioaccumulative potential

When sodium percarbonate is dissolved in water, it dissociates to sodium carbonate and hydrogen peroxide. Hydrogen peroxide is reactive and a short-lived polar substance and no bioaccumulation is expected (European Commission, 2003b, OECD, 1999).

Mobility in soil

When sodium percarbonate is dissolved in water, it dissociates to sodium carbonate and hydrogen

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peroxide rather easily. The high water solubility and low vapour pressure indicate that sodium carbonate will be found predominantly in the aquatic environment. Volatilisation of hydrogen peroxide from surface waters and moist soil is expected to be very low, while it is expected to be highly mobile in soil. It can be concluded that the aquatic compartment is the main compartment for sodium carbonate and hydrogen peroxide.

Additional ecological information:

Do not allow to enter ground water, sewage or drains.

13. DISPOSAL INFORMATION

See section 7, Handling and storage

International regulations

Disposal should be done in accordance with local, state, and national laws.

Waste for residues

Burn it a little at a time in an incinerator or dispose with a large quantity of water.

Entrust disposal of product to an industrial waste disposal contractor.

Used container

Disposal should be done in accordance with local, state, and national laws.

14. TRANSPORT INFORMATION

See section 7, Handling and storage

UN regulations**UN classification**

SODIUM CARBONATE PEROXYHYDRATE (Class 5.1, Packing group III)

UN number

UN 3378

Take necessary measures to prevent spillage, leakage, outflow and seepage.

15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

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ICOP (INDUSTRY CODE OF PRACTICE) on Chemicals Classification and Hazard Communication 2014

16. OTHER INFORMATION

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Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief accurate as the date indicated.

The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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