

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SODIUM PEROXIDE

CAS Number: 1313-60-6

1. IDENTIFICATION:

Product Code : 90249

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:**Hazard classification****Health hazards**

Oxidizing solids : Category 1

Skin corrosion : Sub-Category 1A

Labels elements :

Hazard symbol : 

Signal word : Danger

Hazard statement : May cause fire or explosion; strong oxidizer
: Causes severe skin burns and eye damage.

Precautionary statement

Prevention : Obtain special instructions before use.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Keep container tightly closed. Ground/ bond container and receiving equipment.
Use explosion-proof electrical/ ventilating/ lighting/ equipment.
Use only non-sparking tools. Take precautionary measures against static discharge.

Response : IF exposed or concerned: Get medical advice/ attention.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage : Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: SODIUM PEROXIDE

CAS Number: 1313-60-6

- Disposal** : Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
- Other hazards which do not result in GHS classification** : 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.

3. COMPOSITION/ INFORMATION ON INGREDIENTS:

Ingredient	CAS Number	Percent	Hazardous
Sodium Peroxide	1313-60-6	NLT 95.0%	Yes

4. FIRST AID MEASURES:

- General information** : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
- Ingestion** : Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
- Inhalation** : Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.
- Skin contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
- Eye contact** : Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
- Most important symptoms/effects, acute and delayed** : The most important known symptoms and effects are described in the labelling.
- Indication of immediate medical attention and special treatment needed** : No data available.

5. FIRE FIGHTING MEASURES:**Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media : Dry powder, Sand

Unsuitable extinguishing media : Water, Carbon dioxide (CO₂), Foam

Specific hazards arising from the chemical : Sodium oxides Not combustible
Caution in contact with water product releases: hydrogen peroxide
Has a fire-promoting effect due to release of oxygen.
Ambient fire may liberate hazardous vapours.

Special protective equipment and precautions for firefighters

Special firefighting procedures : Fight fire from a protected location. Move containers from fire area if you can do so without risk.

MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: SODIUM PEROXIDE

CAS Number: 1313-60-6

Special protective equipment for fire-fighters : Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up : Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

Environmental precautions : Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities : Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:**Control parameters****Appropriate engineering****controls**

: No data available

Individual protection measures, such as personal protective equipment

General information : An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

Eye/face protection : Wear safety glasses with side shields (or goggles).

MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: SODIUM PEROXIDE

CAS Number: 1313-60-6

Hand protection	:	Chemical resistant gloves.
Other	:	Wear suitable protective clothing.
Respiratory protection	:	Required when dusts are generated.
Hygiene measures	:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	:	White to yellowish hygroscopic granules.
Odor	:	No data available
Solubility	:	No data available
Formula	:	Na ₂ O ₂
Molecular Weight	:	77.98 g/mol
Density	:	2.805 g/cm ³ at 25°C
pH	:	12.8 at 100 g/l
% Volatiles by volume @ 21C (70F)	:	No data available
Boiling Point	:	657°C
Melting Point	:	460°C
Flash Point	:	No data available
Vapor Density (Air=1)	:	No data available
Vapor Pressure (mm Hg)	:	No data available
Evaporation Rate (BuAc=1)	:	No data available

10. STABILITY AND REACTIVITY:

Reactivity	:	No data available
Chemical stability	:	Material is stable under ambient conditions.. Risk of ignition or formation of inflammable gases or vapours with: Alcohols, Benzene, combustible substances, acetic acid, carbon disulfide, hydrogen sulphide, anilines, Powdered metals, Ether, ethanol, Methanol, Iron, Water, Tin.
Possibility of hazardous reactions	:	Risk of explosion with: Organic Substances, Metals, sulfur, phosphorus, performic acid, sodium thiosulphate, metallic chlorides, carbon, glycerol, Acetic anhydride, carbides, Boron, arsenic, antimony, ammonium compounds, powdered aluminium, sugars, charcoal, powdered magnesium, Water with Organic Substances, carbon dioxide with Metals.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: SODIUM PEROXIDE

CAS Number: 1313-60-6

Exothermic reaction with: Aldehydes, acids, nitrides, Sulfur dichloride

Conditions to avoid : Do not allow water to enter container because of violent reaction.**Incompatible materials** : Strong oxidizing agents**Hazardous decomposition products** : In the event of fire: see section 5**11. TOXICOLOGICAL INFORMATION:****Information on toxicological effects****Acute toxicity (list all possible routes of exposure)****Oral Product** : No data available.**Dermal Product** : No data available.**Inhalation Product** : No data available.**Repeated dose toxicity Product** : No data available.**Skin corrosion/irritation Product** : Causes severe burns**Serious eye damage/eye irritation Product** : Causes serious eye damage**Respiratory or skin sensitization Product** : No data available.**Carcinogenicity Product** : No data available.**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans** : No data available.**US. National Toxicology Program (NTP) Report on Carcinogens** : No data available.**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050 Germ cell mutagenicity)** : No data available.**In vitro Product** : No data available.**Reproductive toxicity Product** : No data available.**Specific target organ toxicity - single exposure Product** : No data available.**Specific target organ toxicity - repeated** : No data available.

MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: SODIUM PEROXIDE

CAS Number: 1313-60-6

exposure Product

Aspiration hazard Product : No data available.

Other effects : None known.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product : No data available.

Aquatic invertebrates Product : No data available.

Chronic hazards to the aquatic environment

Fish Product : No data available.

Aquatic invertebrates Product : No data available.

Toxicity to Aquatic Plants Product: : No data available.

Persistence and degradability

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

BOD/COD ratio Product : No data available.

Bioaccumulative potential

Bioconcentration factor (BCF) Product : No data available on bioaccumulation.

Partition coefficient n-octanol / water (log Kow) Product : No data available.

Mobility in soil : No data available.

Other adverse effects : No data available
: Biological effects: Possible decomposition products in case of hydrolysis are: hydrogen peroxide Sodium hydroxide Harmful effect due to pH shift. Product reacts with water. Discharge into the environment must be avoided.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.

Contaminated packaging : Since emptied containers retain product residue, follow label warnings even after container is emptied.

MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: SODIUM PEROXIDE

CAS Number: 1313-60-6

14. TRANSPORT INFORMATION:

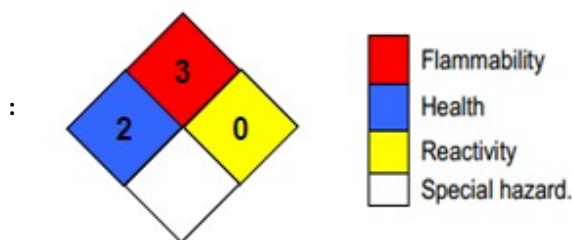
	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
ADR/RID	UN 1504	Sodium Peroxide	5.1	I	No
IMDG	UN 1504	Sodium Peroxide	5.1	I	No
IATA	UN 1504	Sodium Peroxide	5.1	I	No

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. OTHER INFORMATION:

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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Version : 01

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