

	ssue date: 21/02/2020 Revision date: 21/02/2025 : Version: 4
SECTION 1: Identification	
.1. Product identifier	
rade name	: SODIUM PEROXIDE
EC-No.	: 215-209-4
EC Index-No.	: 011-003-00-1
CAS-No.	: 1313-60-6
JN-No. (ADR)	: 1504
Product code	: 119240xxx
Formula	: Na2O2
.2. Relevant identified uses of th	e substance or mixture and uses advised against
Recommended uses and restrictions	: For laboratory use only
.3. Supplier's details	
abchem (Pty)Ltd 5 Wakefield Road Founders Hill 609 Johannesburg - South Africa 7 +27 11 452 1116 - F +27 86 588 0293 echlab@labchem.co.za - www.labchem.c	<u>co.za</u>
.4. Emergency telephone numbe	r
mergency number	: +27 11 452 1116
SECTION 2: Hazards identificat	tion
2.1. Classification of the substand	ce or mixture
Skin corrosion/irritation, Category 1A	H314
Full text of H statements : see section 16         2.2.       Label elements	
Full text of H statements : see section 16	
Full text of H statements : see section 16         2.2.       Label elements         .abelling according to the United National Section 16	ons GHS
Full text of H statements : see section 16 2. Label elements Labelling according to the United National Hazard pictograms (GHS-ZA)	DINS GHS GHS03 GHS05

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According to SANS 10234:2008 and SANS 11014:2010

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

Adverse physicochemical, human health and environmental effects

: Causes severe skin burns and eye damage.

#### **SECTION 3: Composition/information on ingredients** 3.1. Substances Substance identification codes: See section 1.1 Product identifier % Classification according to Name the United Nations GHS sodium peroxide (CAS-No.) 1313-60-6 ≥ 99 Ox. Sol. 1, H271 (Main constituent) Skin Corr. 1A, H314 Full text of H-statements: see section 16 **Mixtures** 3.2 Not applicable **SECTION 4: First aid measures Description of first aid measures** 4.1. Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory First-aid measures general arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Call a physician immediately. Remove person to fresh air and keep comfortable for breathing. Remove the victim into fresh First-aid measures after inhalation air. Doctor: administration of corticoid spray. Respiratory problems: consult a doctor/medical service First-aid measures after skin contact Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents without medical advice. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital. Rinse skin with water/shower. Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. Take off immediately all contaminated clothing. Call a physician immediately. Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and First-aid measures after eye contact easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce First-aid measures after ingestion vomiting. Do not apply (chemical) neutralizing agents without medical advice. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.html). Ingestion of large quantities: immediately to hospital. Take the container/vomit to the doctor/hospital. Doctor: gastric lavage. Rinse mouth. Do not induce vomiting. Call a physician immediately. Most important symptoms and effects, both acute and delayed 4.2 : AFTER INHALATION OF DUST: Dry/sore throat. Coughing. Respiratory difficulties. Symptoms/effects after inhalation FOLLOWING SYMPTOMS MAY APPEAR LATER: Risk of lung oedema. Symptoms/effects after skin contact : Caustic burns/corrosion of the skin. Slow-healing wounds. Burns. Symptoms/effects after eye contact Corrosion of the eye tissue. Serious damage to eyes. Symptoms/effects after ingestion Abdominal pain. Blood in vomit. Possible esophageal perforation. Burns to the gastric/intestinal mucosa. Burns. Chronic symptoms No effects known Potential adverse human health effects and : Causes severe skin burns. Causes serious eye damage. symptoms Indication of any immediate medical attention and special treatment needed 4.3. Treat symptomatically. **SECTION 5: Firefighting measures** 5.1. **Extinguishing media** : Water. Quick-acting ABC powder extinguisher. Quick-acting CO2 extinguisher. Quantities of Suitable extinguishing media water. Water spray. Dry powder. Foam. Unsuitable extinguishing media : Foam. Foam.

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According to SANS 10234:2008 and SANS 11014:2010

According to SANS 10234:2008 and SANS 11014:2010	
5.2. Special hazards arising from the sub	ostance or mixture
Fire hazard	: DIRECT FIRE HAZARD: Non combustible. INDIRECT FIRE HAZARD: May cause fire or explosion; strong oxidiser. Reactions involving a fire hazard: see "Reactivity Hazard". May cause fire or explosion; strong oxidiser.
Explosion hazard	: INDIRECT EXPLOSION HAZARD: Reactions with explosion hazards: see "Reactivity Hazard".
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety. When cooling/extinguishing: no water in the substance. Do not move the load if exposed to heat. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective equ	uipment and emergency procedures
No additional information available	
6.1.1. For non-emergency personnel	
Protective equipment	: Gloves. Face shield. Corrosion-proof suit. Dust cloud production: compressed air/oxygen apparatus.
Emergency procedures	: Ventilate spillage area. Mark the danger area. Prevent dust cloud formation. No naked flames. Keep containers closed. Avoid ingress of water in the containers. Wash contaminated clothes. On contact with moisture/water: keep upwind. On contact with moisture/water: consider evacuation. In case of reactivity hazard: consider evacuation. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment. Prevent soil ar	d water pollution. Prevent spreading in sewers.
6.3. Methods and material for containme	•
For containment	: Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust cloud with water spray. Take account of toxic/corrosive precipitation water.
Methods for cleaning up	: Mechanically recover the product. Stop dust cloud by covering with sand/earth or dry powdered limestone or soda ash. Solid spill: shovel into dry and closing drums. Carefully collect the spill/leftovers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid raising dust. Keep away from naked flames/heat. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Avoid contact of substance with water. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Observe very strict hygiene - avoid contact. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	ig any incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.
Storage area	: Store in a cool area. Store in a dry area. Keep container in a well-ventilated place. Fireproof storeroom. Keep locked up. Unauthorized persons are not admitted. Keep only in the original container. Meet the legal requirements.
Incompatible materials	: combustible materials.
Heat and ignition sources	: KEEP SUBSTANCE AWAY FROM: heat sources.
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Information on mixed storage	<ul> <li>KEEP SUBSTANCE AWAY FROM: combustible materials. reducing agents. (strong) acids. organic materials. alcohols. water/moisture.</li> </ul>
Special rules on packaging	<ul> <li>SPECIAL REQUIREMENTS: hermetical. watertight. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.</li> </ul>
Packaging materials	SUITABLE MATERIAL: steel. iron. synthetic material. glass. tin. MATERIAL TO AVOID: aluminium. copper. tin. zinc. paper. cardboard, wood.

### SECTION 8: Exposure controls/personal protection

8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measures, su	ch as personal protective equipment (PPE)
Materials for protective clothing	: GIVE EXCELLENT RESISTANCE: butyl rubber. PVC. viton. GIVE GOOD RESISTANCE: chlorosulfonated polyethylene. neoprene. GIVE POOR RESISTANCE: leather
Hand protection	: Gloves
Eye protection	: Face shield. In case of dust production: protective goggles
Skin and body protection	: Corrosion-proof clothing. In case of dust production: head/neck protection. In case of dust production: dustproof clothing
Respiratory protection	: Dust production: dust mask with filter type P3. High dust production: self-contained breathing apparatus

### Personal protective equipment symbol(s):



### 8.4. Exposure limit values for the other components

No additional information available

#### **SECTION 9: Physical and chemical properties** 9.1. Information on basic physical and chemical properties Physical state : Solid : Crystalline solid. Crystalline powder. Appearance Molecular mass : 78.98 g/mol Colour : White to yellow. Odour : Odourless. Odour threshold No data available : No data available pН : No data available pH solution Relative evaporation rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) : No data available Melting point : Not applicable (decomposes) Freezing point : Not applicable Boiling point : Not applicable (decomposes) Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature : > 460 °C Flammability (solid, gas) : Non flammable. : < 0.0001 hPa (20 °C, Estimated value) Vapour pressure Vapour pressure at 50 °C : No data available Relative vapour density at 20 °C : Not applicable Relative density : 2.8 (20 °C) Relative density of saturated gas/air mixture : No data available Density : 2805 kg/m<sup>3</sup> Relative gas density : No data available

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Solubility	: Reacts with water. Water: soluble
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive.
Oxidising properties	: May cause fire or explosion; strong oxidiser.
Explosive limits	: Not applicable
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available
9.2. Other information	
VOC content	: Not applicable (inorganic)
Other properties	: Hygroscopic. Basic reaction.

### **SECTION 10: Stability and reactivity**

#### Reactivity 10.1.

Absorbs the atmospheric CO2. Reacts violently with many compounds e.g.: with organic material and with (strong) reducers with (increased) risk of fire/explosion. Reacts violently with combustible materials: risk of spontaneous ignition. Reacts exothermically with (some) acids and with alcohols: (increased) risk of fire/explosion. On heating: oxidation resulting in increased fire or explosion risk. May cause fire or explosion; strong oxidiser.

#### 10.2. **Chemical stability**

Unstable on exposure to moisture. Unstable on exposure to air.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. **Conditions to avoid**

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

Incompatible materials 10.5

### Combustible materials.

#### 10.6. Hazardous decomposition products

Violent exothermic reaction with water (moisture): oxidation resulting in increased fire or explosion risk: release of corrosive products (sodium hydroxide).

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified : Not classified : Not classified
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	<ul> <li>Causes severe skin burns.</li> <li>Assumed to cause serious eye damage</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>

Potential adverse human health effects and symptoms

: Causes severe skin burns. Causes serious eye damage.

<b>SECTION 12: Ecological information</b>	
12.1. Toxicity	
Ecology - general	: Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008. Before neutralisation, the product may represent a danger to aquatic organisms.
Ecology - air	Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water	: pH shift. Reaction products are harmful to aquatic organisms.
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Hazardous to the aquatic environment, short- term (acute)	: Not classified
Hazardous to the aquatic environment, long- term (chronic)	: Not classified
12.2. Persistence and degradability	
SODIUM PEROXIDE (1313-60-6)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
12.3. Bioaccumulative potential	
SODIUM PEROXIDE (1313-60-6)	
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
SODIUM PEROXIDE (1313-60-6)	
Mobility in soil	No additional information available
Ecology - soil	No (test)data on mobility of the substance available.
12.5. Other adverse effects	

Ozone : Not classified

Other adverse effects :	No additional information available
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SECTION 13: Disposal considerations		
13.1. Disposal methods		
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Product/Packaging disposal recommendations	: Use appropriate containment to avoid environmental contamination. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. May be discharged to wastewater treatment installation.	
Additional information	: Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.	

## SECTION 14: Transport information

### In accordance with SANS / IMDG / IATA

SANS	IMDG	ΙΑΤΑ
14.1. UN number		
1504	1504	1504
14.2. Proper Shipping Name		
SODIUM PEROXIDE	SODIUM PEROXIDE	Sodium peroxide
14.3. Transport hazard class(es)		
5.1	5.1	5.1
5.1	5.1	5.1 Not applicable
14.4. Packing group		
I	1	1
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No :	Dangerous for the environment : No
	No supplementary information available	9
14.6. Special precautions for user		

- SANS

: Subject to the provisions
: 0
: 0

## Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

According to SANS 10234:2008 and SANS 11014:2010	
Packagings, large packagings and IBCs Packing instructions (SANS)	: P503, IBC05
Packagings, large packagings and IBCs Special packing instructions (SANS)	: B1
- IMDG	
Transport regulations (IMDG)	: Subject to the provisions
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P503
IBC packing instructions (IMDG)	: IBC05
IBC special provisions (IMDG)	: B1
EmS-No. (Fire)	: F-G - FIRE SCHEDULE Golf - WATER-REACTIVE SUBSTANCES
EmS-No. (Spillage)	: S-Q - SPILLAGE SCHEDULE Quebec - OXIDIZING SUBSTANCES
Stowage category (IMDG)	: C
Properties and observations (IMDG)	: Pale yellow coarse powder or granules. Particularly if wetted with small quantities of water, a mixture with combustible material may ignite, following impact or friction. When involved in a fire, or in contact with water or acids, decomposes, evolving oxygen. Highly irritating to skin, eyes and mucous membranes.
- IATA	
Transport regulations (IATA)	: Subject to the provisions
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: Forbidden
PCA max net quantity (IATA)	: Forbidden
CAO packing instructions (IATA)	: 561
CAO max net quantity (IATA)	: 15kg
Special provisions (IATA)	: A1
ERG code (IATA)	: 5L
14.7. Transport in bulk according to Anno	x II of MARPOL 73/78 and the IBC Code
Not applicable	
SECTION 15: Regulatory information	
15.1. Safety, health, and environmental n	ational regulations specific for the product
Regulatory reference	: SANS 10234:2008; SANS 11014:2010; SANS 10228:2012;SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National Road Traffic Act 93 of 1996.

SECTION 16: Other information		
Issue date	: 21/02/2020	
Revision date	: 21/02/2025	

### Full text of H-statements:

H271	May cause fire or explosion; strong oxidiser.
H314	Causes severe skin burns and eye damage.

### SDS South Africa

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is ntended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.