

# Sodium peroxide

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 04/12/2017

Version: 1.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Substance  
 Name : Sodium peroxide  
 CAS-No. : 1313-60-6  
 Formula : Na<sub>2</sub>O<sub>2</sub>

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Chemical analysis reagent

#### 1.3. Supplier

MSSA S.A.S.  
 111, Rue de la Volta - Pomblière  
 SAINT-MARCEL, 73600 - France  
 T +33 (0)4 79 24 70 70 - F +33 (0)4 79 24 70 50  
[fds-msds@metauxspeciaux.fr](mailto:fds-msds@metauxspeciaux.fr)

#### 1.4. Emergency telephone number

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Oxidizing solids Category 1 H271  
 Corrosive to metals H290  
 Category 1  
 Skin corrosion/irritation H314  
 Category 1A  
 Serious eye damage/eye irritation Category 1 H318  
 Specific target organ toxicity (single exposure) H335  
 Category 3

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS03

GHS05

GHS07

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H271 - May cause fire or explosion; strong oxidizer  
 H290 - May be corrosive to metals  
 H314 - Causes severe skin burns and eye damage  
 H318 - Causes serious eye damage  
 H335 - May cause respiratory irritation

Precautionary statements (GHS-US) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
 P220 - Keep/Store away from clothing, combustibles  
 P221 - Take any precaution to avoid mixing with combustible materials  
 P234 - Keep only in original container  
 P260 - Do not breathe dust, fume  
 P264 - Wash hands, forearms and face thoroughly after handling  
 P271 - Use only outdoors or in a well-ventilated area  
 P280 - Wear eye protection, face protection, protective gloves, protective clothing  
 P283 - Wear fire/flame resistant/retardant clothing  
 P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting  
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

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skin with water/shower  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P306+P360 - If on clothing: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes  
P310 - Immediately call a doctor, a POISON CENTER  
P363 - Wash contaminated clothing before reuse  
P370+P378 - In case of fire: Use dry extinguishing powder, sand, carbon dioxide (CO<sub>2</sub>) to extinguish  
P371+P380+P375 - In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion  
P390 - Absorb spillage to prevent material damage  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
P405 - Store locked up  
P406 - Store in corrosive resistant container with a resistant inner liner  
P501 - Dispose of contents/container to an approved waste disposal plant

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Name	Product identifier	%	GHS-US classification
Sodium peroxide (Main constituent)	(CAS-No.) 1313-60-6	100	Ox. Sol. 1, H271 Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Move the affected person away from the contaminated area and into the fresh air. Call a doctor.  
First-aid measures after skin contact : Remove all contaminated clothing and footwear. Rinse with plenty of water. Get immediate medical advice/attention.  
First-aid measures after eye contact : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Consult an eye specialist immediately.  
First-aid measures after ingestion : If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink. Never attempt to induce vomiting. Call a physician immediately.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Irritation to respiratory tract.  
Symptoms/injuries after skin contact : Burns.  
Symptoms/injuries after eye contact : Burns.  
Symptoms/injuries after ingestion : Corrosion or irritation of the linings of the mouth, throat, and gastrointestinal tract.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Dry powder. Dry sand. Carbon dioxide (CO<sub>2</sub>).  
Unsuitable extinguishing media : Water. Foam.

### 5.2. Specific hazards arising from the chemical

Fire hazard : During combustion : Toxic fumes may be released.  
Reactivity : May cause fire or explosion; strong oxidizer.

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### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Evacuate the danger area. Contain the extinguishing fluids by bunding.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Avoid contact with skin and eyes. Do not attempt to take action without suitable protective equipment. Evacuate the danger area. Remove all incompatible materials as quickly as possible: Organic materials, Oxidisable materials.

#### 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

Do not allow product to spread into the environment.

### 6.3. Methods and material for containment and cleaning up

- For containment : Sweep up or vacuum up the product. Avoid creating or spreading dust. Transfer the product into a spare container: - suitably labeled.  
Methods for cleaning up : Wash contaminated area with large amounts of water.  
Other information : Dispose of solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid creating or spreading dust. Avoid any direct contact with the product.  
Hygiene measures : Do not drink, eat or smoke in the workplace. Always wash hands after handling the product.

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

- Storage conditions : Keep the container hermetically sealed. Store in a cool, well-ventilated place. Keep container dry. Keep away from heat.  
Incompatible materials : Water. Organic materials. Combustible materials. Oxidizing materials.  
Packaging materials : Original packaging.

## 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. Extraction to remove dust at its source. Safety shower. Eye fountain. Monitor the atmosphere at regular intervals.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Goggles + face shield

#### Skin and body protection:

Protective clothing

#### Respiratory protection:

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In the event of insufficient ventilation:  
Respiratory protective device with a particle  
filter (P2 / P3)

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Pellet.
Color	: light yellow
Odor	: odorless
Odor threshold	: No data available
pH	: Not applicable
Melting point	: Decomposes before melting
Freezing point	: No data available
Boiling point	: Decomposes before boiling
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1380 kg/m <sup>3</sup>
Molecular mass	: 77.98 g/mol
Solubility	: Water: Soluble
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 460 °C
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: Oxidizing.

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

May cause fire or explosion; strong oxidizer.

#### 10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

#### 10.3. Possibility of hazardous reactions

Oxidant. Strongly supports combustion. May react violently with combustible materials.

#### 10.4. Conditions to avoid

None to our knowledge.

#### 10.5. Incompatible materials

Water. Moisture. Organic materials. Combustible materials. Oxidizing materials.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: Not applicable
Serious eye damage/irritation	: Causes serious eye damage. pH: Not applicable
Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity – single exposure	: May cause respiratory irritation.
Specific target organ toxicity – repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Technical impossibility to obtain the data)
Symptoms/effects after inhalation	: Irritation to respiratory tract.
Symptoms/injuries after skin contact	: Burns.
Symptoms/injuries after eye contact	: Burns.
Symptoms/injuries after ingestion	: Corrosion or irritation of the linings of the mouth, throat, and gastrointestinal tract.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : Before neutralization the alkalinity of the product may represent a danger to aquatic organisms.

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not bioaccumulable.
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#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste treatment methods	: Dispose of in accordance with relevant local regulations. Incinerate at a licensed installation.
Additional information	: The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1504 Sodium peroxide, 5.1, I

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UN-No.(DOT) : UN1504  
Proper Shipping Name (DOT) : Sodium peroxide  
Class (DOT) : 5.1 - Class 5.1 - Oxidizer 49 CFR 173.128  
Packing group (DOT) : I - Great Danger  
Hazard labels (DOT) : 5.1 - Oxidizer



DOT Packaging Non Bulk (49 CFR 173.xxx) : 211  
DOT Packaging Bulk (49 CFR 173.xxx) : None  
DOT Special Provisions (49 CFR 172.102) : A20 - Plastic bags as inner receptacles of combination packaging are not authorized for transportation by aircraft.  
IB5 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 21HZ1 and 31HZ1).  
IP1 - IBCs must be packed in closed freight containers or a closed transport vehicle.  
N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material.  
DOT Packaging Exceptions (49 CFR 173.xxx) : None  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : Forbidden  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 15 kg  
DOT Vessel Stowage Location : C - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel.  
DOT Vessel Stowage Other : 13 - Keep as dry as reasonably practicable,52 - Stow "separated from" acids,66 - Stow "separated from" flammable solids,75 - Stow "separated from" permanganates  
Emergency Response Guide (ERG) Number : 144  
Other information : No supplementary information available.

### Transportation of Dangerous Goods

#### Transport by sea

Transport document description (IMDG) : UN 1504 SODIUM PEROXIDE, 5.1, I  
UN-No. (IMDG) : 1504  
Proper Shipping Name (IMDG) : SODIUM PEROXIDE  
Class (IMDG) : 5.1 - Oxidizing substances  
Packing group (IMDG) : I - substances presenting high danger  
Limited quantities (IMDG) : 0  
MFAG-No : 144

#### Air transport

Transport document description (IATA) : UN 1504 Sodium peroxide, 5.1, I  
UN-No. (IATA) : 1504  
Proper Shipping Name (IATA) : Sodium peroxide  
Class (IATA) : 5.1 - Oxidizing Substances  
Packing group (IATA) : I - Great Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Sodium peroxide (1313-60-6)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard Reactive hazard
SARA Section 313 - Emission Reporting	Not applicable

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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### 15.2. International regulations

#### CANADA

##### Sodium peroxide (1313-60-6)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

Other information : Safety data sheet established by : LISAM SERVICES - TELEGIS  
17 rue de la Couture F-60400 Passel  
www.lisam-telegis.fr.

Full text of H-phrases:

H271	May cause fire or explosion; strong oxidizer
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard : 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 3 - Materials that in themselves are capable of detonation or explosive decomposition or explosive reaction but that require a strong initiating source or must be heated under confinement before initiation.

NFPA specific hazard : OX - Materials that possess oxidizing properties.

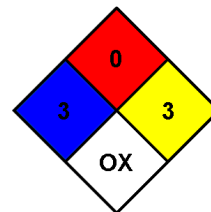
Hazard Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 3 Serious Hazard - Materials that may form explosive mixtures with water and are capable of detonation or explosive reaction in the presence of a strong initiating source. Materials may polymerize, decompose, self-react, or undergo other chemical change at normal temperature and pressure with moderate risk of explosion

Personal protection : E  
E - Safety glasses, Gloves, Dust respirator



SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*