

## SAFETY DATA SHEET

Preparation Date: 9/2/2015

Revision date 2/8/2019

Revision Number: G2

### 1. IDENTIFICATION

#### Product identifier

**Product code:** S1390  
**Product Name:** SODIUM PEROXIDE, REAGENT, ACS

#### Other means of identification

**Synonyms:** Disodium dioxide  
 Disodium peroxide  
 Natrium peroxydatum  
 Natriumsuperoxid  
 Sodium oxide  
 Solozone

**CAS #:** 1313-60-6  
**RTECS #** WC9000000  
**Cl#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** Bleaching agent. Antiseptic. Chemical intermediate. In organic synthesis. In textiles. Textile printing.

**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>  
**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Tom Tyner (USA - West Coast)  
**Contact Person:** Ibad Tirmiz (USA - East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Oxidizing solids	Category 1

#### Label elements

Danger

**Hazard statements**

Causes severe skin burns and eye damage  
May cause respiratory irritation  
May cause fire or explosion; strong oxidizer

**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

Not available

**Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves  
Wear eye/face protection  
Use only outdoors or in a well-ventilated area  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Keep/Store away from clothing and other combustible materials  
Take any precaution to avoid mixing with combustibles  
Wear fire/flame resistant/retardant clothing

**Precautionary Statements - Response**

*Immediately call a POISON CENTER or doctor/physician*

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. IN CASE OF FIRE: Use water to extinguish. Do not use dry chemicals or foams. CO<sub>2</sub> or Halon may provide limited control.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Wash contaminated clothing before reuse

IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes

Rinse skin with water/shower

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS No	Weight-%
Sodium Peroxide	1313-60-6	100

## 4. FIRST AID MEASURES

### First aid measures

- General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Skin Contact:** Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.
- Eye Contact:** Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.
- Inhalation:** Move to fresh air. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, give oxygen. Immediate medical attention is required.
- Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

### Most important symptoms and effects, both acute and delayed

- Symptoms**
- Corrosive
  - Causes severe skin burns and eye damage
  - Possible corrosion and tissue destruction of the esophagus and digestive tract
  - Severe irritation or burns of the respiratory tract and possible lung injury
  - Severe irritation of the upper respiratory tract
  - May cause chemical pneumonitis
  - May cause pulmonary edema
  - Coughing and wheezing

### Indication of any immediate medical attention and special treatment needed

- Notes to Physician:** Treat symptomatically.

### Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

## 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

- Suitable Extinguishing Media:** Dry sand. Dry powder. CO<sub>2</sub> may be of no value in extinguishing fires involving oxidizers and may only provide limited control.
- Unsuitable Extinguishing Media:** Water spray. Dry chemical. Foam. Halons.

### Specific hazards arising from the chemical

- Hazardous combustion products** Sodium oxides.

**Specific hazards**

Oxidizer. Keep away from combustible materials (wood, paper, oil, clothing, etc.) The product is not flammable, but it may cause fire when in contact with other material. Contact with combustible or organic materials may cause fire. Contact with finely divided (powdered) metals may cause ignition (fire) or explosion. Will accelerate burning when involved in a fire. Container explosion may occur under fire conditions or when heated. Oxidizer. Keep away from combustible materials (wood, paper, oil, clothing, etc.). The product is not flammable, but it may cause fire when in contact with other material. Contact with combustible or organic materials may cause fire. Will accelerate burning when involved in a fire. Container explosion may occur under fire conditions or when heated. Contact with finely divided (powdered) metals may cause ignition (fire) or explosion.

**Special Protective Actions for Firefighters****Specific Methods:**

No information available

**Special Protective Equipment for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal Precautions:**

Ensure adequate ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep combustibles (wood, paper, oil, clothing, etc.) away from spilled material. Remove all sources of ignition. Avoid dust formation.

**Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Prevent from entering into soil, ditches, sewers, waterways, and/or ground water. Prevent product from entering drains.

**Methods and material for containment and cleaning up****Methods for containment**

Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up**

Sweep up and shovel. Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Do not use combustible materials such as paper towels, sawdust, clothing, etc. to clean up spill. Clean contaminated surface thoroughly.

**7. HANDLING AND STORAGE****Precautions for safe handling****Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials. Avoid dust formation.

**Safe Handling Advice**

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Use only in well-ventilated areas. Do not ingest. Do not breathe dust. When using do not smoke. Keep away from heat and sources of ignition. Keep away from combustible material. Protect from moisture. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Do not store near combustible materials. Store in a segregated and approved area. Air sensitive. Moisture sensitive. Protect from moisture.

**Incompatible Materials:**

- Powdered metals
- Reducing agents
- Combustible materials
- Water
- Metals
- Copper
- Phosphorus
- Manganese dioxide
- Organic materials
- Charcoal
- Glycerol
- Diethyl ether
- Aniline
- Benzene

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**National occupational exposure limits**

**United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Sodium Peroxide	1313-60-6	None	None	None	None

**Canada**

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Sodium Peroxide	1313-60-6	None	None	None	None

**Australia and Mexico**

Component	CAS No	Australia	Mexico
Sodium Peroxide	1313-60-6	None	None

**Appropriate engineering controls**

**Engineering measures to reduce exposure:**

Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure

limit.

### Individual protection measures, such as personal protective equipment

#### Personal Protective Equipment

<b>Eye protection:</b>	Goggles or Face-shield.
<b>Skin and body protection:</b>	Gloves Long sleeved clothing Chemical resistant apron
<b>Respiratory protection:</b>	Wear respirator with dust filter. Be sure to use an approved/certified respirator or equivalent.
<b>Hygiene measures:</b>	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Solid	<b>Appearance:</b> Granular powder.	<b>Color:</b> White to yellowish.
<b>Odor:</b> Odorless.	<b>Taste</b> No information available.	<b>Formula</b> Na <sub>2</sub> O <sub>2</sub>
<b>Molecular/Formula weight (g/mole):</b> 77.98 g/mol	<b>Flammability (solid, gas)</b> no data available	<b>Flashpoint (°C/°F):</b> No information available
<b>Flash Point Tested according to:</b> Not available	<b>Autoignition Temperature (°C/°F):</b> No information available	<b>Lower Explosion Limit (%):</b> No information available
<b>Upper Explosion Limit (%):</b> No information available	<b>Melting point/range(°C/°F):</b> 460°C/860°F (dec)	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> 657°C/1215°F	<b>Bulk density:</b> No information available	<b>Density (g/cm<sup>3</sup>):</b> 2.805
<b>Specific gravity:</b> No information available	<b>pH</b> 12.8 (10%)	<b>Vapor pressure @ 20°C (kPa):</b> No information available
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> No information available	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available	<b>Viscosity:</b> No information available
<b>Miscibility:</b> No information available	<b>Solubility:</b> Soluble in acids Insoluble in alkalis Reacts with water	

### 10. STABILITY AND REACTIVITY

#### Reactivity

Oxidizer. Reacts with reducing agents, organic material, combustible materials, and powdered metals  
Contact with combustible materials (wood, paper, oil, clothing, etc.) may cause fire  
Contact with powdered metals may cause fire or explosion

Can react explosively with many reducing agents  
Reacts vigorously with alkalies and with many organic materials.  
Mixtures of selenium and sodium peroxide are explosive.  
Sensitive to light. It gradually darkens on exposure to light  
May ignite spontaneously on exposure to moist air or water  
On prolonged storage, a yellow discoloration may occur through slow decomposition  
Decomposes with liberation of oxygen in warm moist air

### Chemical stability

**Stability:** Stable under recommended storage conditions. Decomposes in contact with water.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur  
May release toxic and/or corrosive fumes

**Conditions to avoid:** Incompatible materials. Contact with combustible materials (wood, paper, oil, clothing, etc.). Exposure to moisture. Exposure to moist air. Exposure to air.

**Incompatible Materials:** Powdered metals  
Reducing agents  
Combustible materials  
Water  
Metals  
Copper  
Phosphorus  
Manganese dioxide  
Organic materials  
Charcoal  
Glycerol  
Diethyl ether  
Aniline  
Benzene

**Hazardous decomposition products:** Hydrogen Peroxide. Sodium oxides. Sodium hydroxide. Oxygen.

### Other Information

**Corrosivity:** May be corrosive to metals

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**  
Inhalation. Skin. Eyes. Ingestion.

### Acute Toxicity

### Component Information

Sodium Peroxide	
CAS No	1313-60-6

**LD50/oral/rat =** No information available

**LD50/oral/mouse =** No information available

LD50/dermal/rabbit = No information available  
LD50/dermal/rat = No information available  
LC50/inhalation/rat = No information available  
LC50/inhalation/mouse = No information available  
Other LD50 or LC50 information = No information available

#### Product Information

LD50/oral/rat =  
Value - Acute Tox = No information available

LD50/oral/mouse =  
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit  
Value - Acute Tox = No information available

LD50/dermal/rat  
VALUE - Acute Tox Dermal = No information available

LC50/inhalation/rat  
VALUE-Vapor = No information available  
VALUE-Gas = No information available  
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse  
VALUE-Vapor = No information available  
VALUE - Gas = No information available  
VALUE - Dust/Mist = No information available

#### Symptoms

<b>Skin Contact:</b>	Causes severe irritation and burns. Can cause burning pain, inflammation and blisters.
<b>Eye Contact:</b>	Causes severe irritation and burns. Corrosive to the eyes and may cause severe damage including blindness.
<b>Inhalation</b>	Causes respiratory tract irritation with possible chemical burns. Causes respiratory tract (nose, throat, lungs), and mucous membrane irritation. May cause chemical pneumonitis. It may cause pulmonary edema. Symptoms may include coughing and wheezing, and shortness of breath.
<b>Ingestion</b>	Causes severe irritation and burns of the digestive tract. May cause ulceration or perforation of the gastrointestinal tract.
<b>Aspiration hazard</b>	No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Chronic Toxicity</b>	No information available.
<b>Sensitization:</b>	No information available.
<b>Mutagenic Effects:</b>	No information available



**Carcinogenic effects:** Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Sodium Peroxide	1313-60-6	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available

**Developmental Effects:** No information available

**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** respiratory system.

**STOT - repeated exposure** No information available.

**Target Organs:** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** No data available.

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility in soil** No information available

**Other adverse effects** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal. Do not re-use empty containers

Dispose of as unused product.

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sodium Peroxide	1313-60-6	None	None	None	None

**14. TRANSPORT INFORMATION**

**Product code:** S1390

**Product name:** SODIUM PEROXIDE,  
REAGENT, ACS

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**DOT**

**UN-No:** UN1504  
**Proper Shipping Name:** Sodium peroxide  
**Hazard Class** 5.1  
**Subsidiary Class** No information available  
**Packing group:** I  
**Emergency Response Guide Number** No information available  
**Marine Pollutant** No data available  
**DOT RQ (lbs):** No information available  
**Special Provisions** No Information available  
**Symbol(s):** No information available  
**Description:** UN1504,Sodium peroxide ,5.1,PG I

**TDG (Canada)**

**UN-No:** UN1504  
**Proper Shipping Name:** Sodium peroxide  
**Hazard Class** 5.1  
**Subsidiary Risk:** No information available  
**Packing Group:** I  
**Marine Pollutant** No Information available  
**Description:** UN1504,SODIUM PEROXIDE,5.1,PG I

**ADR**

**UN Number** UN1504  
**Proper Shipping Name:** Sodium peroxide  
**Transport hazard class(es)** 5.1  
**Packing group** I  
**Subsidiary Risk:** No information available  
**Description:** UN1504 Sodium peroxide,5.1,I

**IMDG**

**UN-No:** UN1504  
**Proper Shipping Name:** Sodium peroxide  
**Hazard Class:** 5.1  
**Subsidiary Risk:** No information available  
**Packing Group:** I  
**Marine Pollutant** No information available  
**EMS:** F-G

**RID**

**UN Number** UN1504  
**Proper Shipping Name:** Sodium peroxide  
**Transport hazard class(es)** 5.1  
**Subsidiary Risk:** No information available  
**Packing group** I  
**Description:** UN1504 Sodium peroxide,5.1,I

**ICAO (air)**

**UN-No:** UN1504  
**Proper Shipping Name:** Sodium peroxide  
**Hazard Class** 5.1  
**Subsidiary Risk:** No information available  
**Packing Group:** I  
**Description:** UN1504,Sodium peroxide,5.1,PG I

**IATA**

**UN Number** UN1504  
**Proper Shipping Name:** Sodium peroxide  
**Transport hazard class(es)** 5.1  
**Subsidiary Risk:** No information available  
**Packing group** I  
**Precautionary Statements - Response** 5L  
**Special Provisions** No information available  
**Description:** UN1504,Sodium peroxide,5.1,PG I

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECS	Australia AICS	EINECS-No.
<i>Sodium Peroxide</i>	1313-60-6	Present(ACTIVE)	Present KE-12368	Present	Present (1)-496	Present	Present	Present 215-209-4

**U.S. Regulations***Sodium Peroxide*

**Massachusetts RTK:** Present  
**New Jersey RTK Hazardous Substance List:** 1718  
**Pennsylvania RTK:** Present

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.****Chemicals Known to the State of California to Cause Cancer:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
<i>Sodium Peroxide</i>	1313-60-6	Not Listed	Not Listed	Not Listed	Not Listed

**CERCLA/SARA**

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQS	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
<i>Sodium Peroxide</i>	1313-60-6	None	None	None	None	None

**U.S. TSCA**

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
<i>Sodium Peroxide</i>	1313-60-6	Not Applicable	Not Applicable

**Canada****WHIMIS 2015 - GHS Classifications****Product code:** S1390**Product name:** SODIUM PEROXIDE, REAGENT, ACS**Page**

WHMIS 2015 Hazard Classification Information:

The WHMIS 2015 classification of this product has not been validated or reviewed yet.

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Sodium Peroxide	1313-60-6	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Sodium Peroxide	1313-60-6	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Sodium Peroxide	1313-60-6	Not listed

#### EU Classification

##### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Sodium Peroxide	1313-60-6	

##### EU - CLP (1272/2008)

#### R-phrases(s)

R 8 - Contact with combustible material may cause fire.  
R35 - Causes severe burns

#### S -phrase(s)

S 8 - Keep container dry.  
S27 - Take off immediately all contaminated clothing  
S39 - Wear eye/face protection  
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)  
S 1/2 - Keep locked up and out of the reach of children.

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Sodium Peroxide	1313-60-6	C; R35 O; R8	No information	S1/2 S8 S27 S39 S45

The product is classified in accordance with Annex VI to Directive 67/548/EEC

#### Indication of danger:

C - Corrosive  
O - Oxidising.



## 16. OTHER INFORMATION

**Preparation Date:** 9/2/2015  
**Revision date** 2/8/2019  
**Prepared by:** Sonia Owen

**Disclaimer:**

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**