# Material Safety Data Sheet Sodium peroxide

ACC# 21510

# Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium peroxide

Catalog Numbers: AC207700000, AC207700250, AC207701000, AC207705000, AC315760000, AC315761000, S80196, NC9410697, S363-

500, XXS363212KG

Synonyms: Disodium dioxide; Disodium peroxide; Sodium superoxide; Sodium dioxide; Solozone.

Company Identification:

Fisher Scientific 1 Reagent Lane Fair Lawn, NJ 07410 For information, call: 201-796-7100

**Emergency Number:** 201-796-7100

For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

# Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
1313-60-6	Sodium peroxide	>93	215-209-4
1310-73-2	Sodium hydroxide	<7	215-185-5

# Section 3 - Hazards Identification

#### **EMERGENCY OVERVIEW**

Appearance: white to yellow granules.

Danger! Strong oxidizer. Contact with other material may cause a fire. Water-reactive. Causes eye and skin burns. Causes digestive

and respiratory tract burns.

Target Organs: Eyes, skin, mucous membranes.

#### **Potential Health Effects**

Eye: Causes severe eye irritation and burns.

Skin: Causes skin burns.

Ingestion: Causes gastrointestinal tract burns.

**Inhalation:** Causes chemical burns to the respiratory tract.

Chronic: No information found. Chronic exposure may cause effects similar to those of acute exposure.

#### Section 4 - First Aid Measures

Eyes: In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid immediately.

**Skin:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

**Ingestion:** If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Strong oxidizer. Contact with other material may cause fire. Reacts violently with water. **Extinguishing Media:** Do NOT use alcohol foams. Do NOT use halogenated agents. DO NOT USE WATER! Contact professional fire-fighters immediately. In case of fire, use carbon dioxide or dry chemical.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable. Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 3; Flammability: 0; Instability: 1; Special Hazard: OX

#### Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions.

Remove all sources of ignition. Provide ventilation. Do not get water inside containers. Do not use combustible materials such as paper towels to clean up spill. Cover with dry earth, dry sand, or other non-combustible material followed with plastic sheet to minimize spreading and contact with water. This material is water-reactive. If you use water, use only flooding quantities to decompose spills to

form nonreactive mixtures and protect personnel.

# Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not allow water to get into the container because of violent reaction. Minimize dust generation and accumulation. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Avoid contact with clothing and other combustible materials. Discard contaminated shoes. Use only with adequate ventilation. Inform laundry personnel of contaminant's hazards.

**Storage:** Do not store near combustible materials. Keep container closed when not in use. Keep under a nitrogen blanket. Keep away from flammable liquids. Keep away from acids. Keep away from reducing agents. Store protected from moisture. Separate from organic materials. Store in a cool, dry, well-ventilated location. Separate from combustible materials, halogens, sulfides, metals. See also NFPA 430, Code for the Storage of Liquid and Solid Oxidizers.

# Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use only under a chemical fume hood.

**Exposure Limits** 

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Sodium peroxide	none listed	none listed	none listed
Sodium hydroxide	2 mg/m3 Ceiling	10 mg/m3 IDLH	2 mg/m3 TWA

**OSHA Vacated PELs:** Sodium peroxide: No OSHA Vacated PELs are listed for this chemical. Sodium hydroxide: No OSHA Vacated PELs are listed for this chemical.

**Personal Protective Equipment** 

Eyes: Wear chemical splash goggles and face shield.

**Skin:** Wear appropriate protective gloves to prevent skin exposure. **Clothing:** Wear appropriate protective gloves to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

## Section 9 - Physical and Chemical Properties

Physical State: Granules
Appearance: white to yellow

Odor: odorless **pH:** Not available.

Vapor Pressure: Not available. Vapor Density: Not available. Evaporation Rate:Not available. Viscosity: Not available. Boiling Point: Not available.

Freezing/Melting Point:460 deg C

**Decomposition Temperature:**Not available.

Solubility: Reacts.

Specific Gravity/Density:2.80 Molecular Formula:Na2O2 Molecular Weight:77.98

# Section 10 - Stability and Reactivity

**Chemical Stability:** Stable at room temperature in closed containers under normal storage and handling conditions. Substance readily absorbs carbon dioxide from air. Reacts with water to form sodium hydroxide and hydrogen peroxide.

**Conditions to Avoid:** Dust generation, exposure to moist air or water.

**Incompatibilities with Other Materials:** Strong reducing agents, acids, acetic acid, acetic anhydride, ammonium persulfate, alcohols, diethyl ether, combustible organics, organic matter, charcoal, benzene, aniline, hydrogen sulfide, metal powders, manganese dioxide, glycerine, calcium carbide (powder), hexamethylenetetramine, sulfur monochloride, aluminum + CO2, boron nitride.

Hazardous Decomposition Products: Irritating and toxic fumes and gases, sodium oxide.

Hazardous Polymerization: Will not occur.

# Section 11 - Toxicological Information

RTECS#:

**CAS#** 1313-60-6 unlisted. **CAS#** 1310-73-2: WB4900000

LD50/LC50: Not available.

CAS# 1310-73-2:

Draize test, rabbit, eye: 400 ug Mild; Draize test, rabbit, eye: 1% Severe; Draize test, rabbit, eye: 50 ug/24H Severe; Draize test, rabbit, eye: 1 mg/24H Severe; Draize test, rabbit, skin: 500 mg/24H Severe;

Carcinogenicity:

CAS# 1313-60-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65. CAS# 1310-73-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found
Teratogenicity: No information found
Reproductive Effects: No information found
Mutagenicity: No information found
Neurotoxicity: No information found

Other Studies:

# Section 12 - Ecological Information

No information available.

# Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed.

# Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	SODIUM PEROXIDE	SODIUM PEROXIDE
Hazard Class:	5.1	5.1
UN Number:	UN1504	UN1504
Packing Group:	I	I

# Section 15 - Regulatory Information

#### **US FEDERAL**

#### **TSCA**

CAS# 1313-60-6 is listed on the TSCA inventory.

CAS# 1310-73-2 is listed on the TSCA inventory.

## **Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

#### **Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

#### Section 12b

None of the chemicals are listed under TSCA Section 12b.

#### **TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

# CERCLA Hazardous Substances and corresponding RQs

CAS# 1310-73-2: 1000 lb final RQ; 454 kg final RQ

#### SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

#### **SARA Codes**

CAS # 1313-60-6: immediate, fire, reactive.

CAS # 1310-73-2: immediate, reactive.

**Section 313** No chemicals are reportable under Section 313.

#### **Clean Air Act:**

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

#### **Clean Water Act:**

CAS# 1310-73-2 is listed as a Hazardous Substance under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

#### STATE

CAS# 1313-60-6 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts. CAS# 1310-73-2 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

#### California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

#### **European/International Regulations**

#### **European Labeling in Accordance with EC Directives Hazard Symbols:**

0 C

#### **Risk Phrases:**

R 35 Causes severe burns.

R 8 Contact with combustible material may cause fire.

#### **Safety Phrases:**

S 27 Take off immediately all contaminated clothing.

S 39 Wear eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible).

S 8 Keep container dry.

#### WGK (Water Danger/Protection)

CAS# 1313-60-6: 1 CAS# 1310-73-2: 1

Canada - DSL/NDSL

CAS# 1313-60-6 is listed on Canada's DSL List.

CAS# 1310-73-2 is listed on Canada's DSL List. Canada - WHMIS

This product has a WHMIS classification of C, E.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

#### **Canadian Ingredient Disclosure List**

CAS# 1310-73-2 is listed on the Canadian Ingredient Disclosure List.

## Section 16 - Additional Information

MSDS Creation Date: 4/29/1999 **Revision #6 Date:** 6/22/2006

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.