

SAFETY DATA SHEET

Creation Date 11-Mar-2014

Revision Date 15-Feb-2023

Revision Number 7

1. Identification

Product Name

Sodium Peroxide (Certified ACS)

Cat No. : \$363-500

CAS No Synonyms

1313-60-6 Sodium superoxide; Disodium dioxide; Disodium peroxide

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

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

Oxidizing solids Corrosive to metals Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 1 Category 1 Category 1 A Category 1 Category 3

Label Elements

Signal Word Danger

Hazard Statements

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



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/protective clothing/eye protection/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/ other combustible materials

Take any precaution to avoid mixing with combustibles

Wear fire/flame resistant/retardant clothing

Keep only in original container

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

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

Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing **Ingestion**

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Fire

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion

Spills

Absorb spillage to prevent material damage

Storage

Store locked up

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

Store in corrosive resistant polypropylene container with a resistant inliner

Store in a dry place

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Sodium peroxide	1313-60-6	96

4. First-aid measures

General Advice

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.
Ingestion	Do NOT induce vomiting. Immediate medical attention is required. Never give anything by mouth to an unconscious person. Drink plenty of water.
Most important symptoms and effects	Causes burns by all exposure routes. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Dry sand.

Suitable Extinguishing Media	Carbon dioxide (CO 2). Dry chemical.					
Unsuitable Extinguishing Media	Water, Foam					
Flash Point Method -	No information available No information available					
Autoignition Temperature Explosion Limits	No information available					
Upper	No data available					
Lower	No data available					
Oxidizing Properties	Oxidizer					

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes. Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.).

Hazardous Combustion Products

Toxic fumes. Sodium oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u> Health 3	Flammability 0	Instability Physical hazards 3 OX					
	6. Accidental re	lease measures					
Personal Precautions Environmental Precautions	contact with skin, eyes or of Should not be released into	clothing.	e equipment as required. Avoid material to contaminate ground ormation.				

Methods for Containment and Clean Do not expose spill to water. Avoid dust formation. Sweep up and shovel into suitable Up containers for disposal. Keep in suitable, closed containers for disposal.

	7. Handling and storage						
Handling	Use only under a chemical fume hood. Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from clothing and other combustible materials.						
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Do not store near combustible materials. Incompatible Materials. Organic materials. Strong oxidizing agents. Acid anhydrides. Metals. copper. Carbon dioxide (CO2). Reducing Agent. Strong reducing agents. Combustible material.						
8. E	Exposure controls / personal protection						
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.						
Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.						
Personal Protective Equipment							
Eye/face Protection	Tight sealing safety goggles. Face protection shield.						
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.						
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.						
Recommended Filter type:	Particulates filter conforming to EN 143.						
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.						
	9. Physical and chemical properties						

9. Physical a	and chemical properties	
Physical State	Solid	
Appearance	Light yellow	
Odor	Odorless	
Odor Threshold	No information available	
рН	No information available	
Melting Point/Range	460 °C / 860 °F	
Boiling Point/Range	No information available	
Flash Point	No information available	
Evaporation Rate	Not applicable	
Flammability (solid,gas)	No information available	
Flammability or explosive limits		
Upper	No data available	
Lower	No data available	
Vapor Pressure	No information available	
Vapor Density	Not applicable	
Specific Gravity	2.800	
Solubility	Reacts violently with water	
Partition coefficient; n-octanol/water	No data available	
Autoignition Temperature	No information available	

Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

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> 460°C Not applicable Na2 O2 77.97

	10. Stability and reactivity							
Reactive Hazard	lazard Yes;							
Stability		Stable under normal conditions. Oxidizer: Contact with combustible/organic material may cause fire.						
Conditions to Avoid	d	Exposure to moist air or water. Incompatible products. Excess heat. Combustible material.						
Incompatible Mater	ials	Organic materials, Strong oxidizing agents, Acid anhydrides, Metals, copper, Carbon dioxide (CO2), Reducing Agent, Strong reducing agents, Combustible material						
Hazardous Decomp	osition Products	s Toxic fumes, Sodium oxides						
Hazardous Polyme	rization	Hazardous polyme	erization does not o	occur.				
Hazardous Reactio	ns	None under norma	al processing.					
		11. Toxico	ological info	ormation				
Acute Toxicity								
Product Information	-	No acute toxicity in	nformation is availa	able for this produc	t			
Toxicologically Syr		No information available						
Products <u>Delayed and immed</u>	liate effects as w	vell as chronic effe	cts from short an	d long-term expo	sure			
Irritation		Causes severe bu	s severe burns by all exposure routes					
Sensitization		No information available						
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.						
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
Sodium peroxide	1313-60-6	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects	to.	No information available						
Reproductive Effec		No information available.						
Developmental Effe	ects	No information available.						
Teratogenicity		No information available.						
STOT - single expo STOT - repeated ex		Respiratory system None known						
Aspiration hazard		No information available						
Symptoms / effects delayed	<i>/ effects,both acute and</i> Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation							
Endocrine Disrupto	or Information	No information ava	ailable					
Other Adverse Effe	cts	The toxicological p	properties have not	t been fully investig	ated.			

12. Ecological information

Ecotoxicity

Reacts with water so no ecotoxicity data for the substance is available. Do not empty into drains. Large amounts will affect pH and harm aquatic organisms.

Persistence and Degradability	Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation	No information available.
Mobility	Is not likely mobile in the environment.
	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and

national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	
UN-No	UN1504
Proper Shipping Name	SODIUM PEROXIDE
Hazard Class	5.1
Packing Group	
TDG	
UN-No	UN1504
Proper Shipping Name	SODIUM PEROXIDE
Hazard Class	5.1
Packing Group	
IATA	
UN-No	UN1504
Proper Shipping Name	SODIUM PEROXIDE
Hazard Class	5.1
Packing Group	
IMDG/IMO	
UN-No	UN1504
Proper Shipping Name	SODIUM PEROXIDE
Hazard Class	5.1
Packing Group	
	15. Regulatory information

United States of America Inventory

Component	CAS No TSCA		TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Sodium peroxide	1313-60-6	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Sodium peroxide	1313-60-6	Х	-	215-209-4	Х	Х	Х	Х	Х	KE-12368

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium peroxide	Х	Х	Х	-	Х

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland	This product does not contain any DHS chemicals.
Security	

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	5	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Sodium peroxide	1313-60-6	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
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Sodium peroxide	1313-60-6	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Sodium peroxide	1313-60-6	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific
	Email: EMSDS.RA@thermofisher.com
Creation Date	11-Mar-2014
Revision Date	15-Feb-2023
Print Date	15-Feb-2023
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS