

Material Safety Data Sheet

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Sodium Percarbonate

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Sodium Percarbonate

Chemical Formula: $2\text{Na}_2\text{CO}_3 \cdot 3\text{H}_2\text{O}_2$

CAS Number: 15630-89-4

Other Designations: PCS, Sodium Carbonate Peroxide, Sodium Carbonate Peroxyhydrate

Derivation:

General Use:

Emergency Telephone: (ChemTel) Contract MIS0000335; 800 255-3924; INTL 813 248-0585

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	EINECS/ELINCS	% wt or % vol
Sodium Percarbonate	15630-89-4		85
Sodium Carbonate	497-19-8		13
Sodium Metasilicate	Na_2SiO_3		<2

Trace Impurities:

Ingredient	OSHA PEL	ACGIH TLV	NIOSH REL		NIOSH
	TWA	TWA	TWA	STEL	IDLH
Sodium Percarbonate	Total Dust 15 mg/m ³ Respirable fraction 5 mg/m ³	Inhalable particulate 10 mg/m ³ Respirable fraction 3 mg/m ³	none estab.	none estab.	none estab.

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Toxicity effects principally related to its irritating properties. Irritating to the mucous membrane, eye and skin. Does not present any significant hazard to the environment.

HMIS

H 2

F 0

R 1

PPE†

†Sec. 8

Potential Health Effects

Primary Entry Routes: Inhalation, ingestion, eye and skin contact.

Target Organs:

Acute Effects

Inhalation: Slight nose and throat irritation. At high concentration, cough. Repeated or prolonged exposure may result in sore throat, nose bleeds, chronic bronchitis.

Eye: Severe eye irritation, watering and redness, can cause burns to the eye and risk of serious or permanent eye lesions.

Skin: Slight irritation, repeated contact may cause dermatitis.

Ingestion: Severe irritation of the mouth, throat, esophagus and stomach. May cause bloating of stomach, belching, nausea, vomiting and diarrhea.

Carcinogenicity: IARC, NTP, and OSHA do not list Sodium Percarbonate as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure:

Chronic Effects:

Section 4 - First Aid Measures

Inhalation: Remove the subject from dusty environment, consult with a physician in case of respiratory symptoms.

Eye Contact: Flush eyes with running water for 15 minutes while keeping the eyelids wide open. Consult an ophthalmologist in all cases.

Skin Contact: Remove contaminated shoes, socks and clothing, wash the affected skin with running water. Consult a physician in case of persistent pain or redness.

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Ingestion: Consult with a physician in all cases. If the subject is completely conscious, rinse mouth and administer fresh water. Do not induce vomiting. If subject is unconscious, loosen collar and tight clothing, lay victim on his/her left side. Keep warm and get medical help immediately. Do not induce vomiting.
After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians:
Special Precautions/Procedures:

Section 5 - Fire-Fighting Measures

Flash Point: N/A

Autoignition Temperature: N/A

LEL: N/A

UEL: N/A

Flammability Classification: non-explosive

Extinguishing Media: Water.

Unusual Fire or Explosion Hazards: Oxygen released on exothermic decomposition may support combustion. Pressure burst may occur due to decomposition in confined spaces or containers. Wet product decomposes exothermically and may cause combustion of organic materials.

Hazardous Combustion Products:

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.



Section 6 - Accidental Release Measures

Spill /Leak Procedures: Avoid direct contact of the product with water.

Small Spills: Collect the product with suitable means, shovel or sweep, avoiding dust formation. Place in container for disposable.

Large Spills

Containment: For large spills, dike far ahead of spill for later disposal. Do not release into sewers or waterways.

Cleanup: Clean spill area with large quantities of water.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Containers and equipment used to handle the product should be used exclusively for that product. Do not return unused or spilled material to the original storage container.

Storage Requirements: Store in a dry well ventilated area, away from direct sunlight and at temperature less than 40 °C (104°F)

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

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Section 9 - Physical and Chemical Properties

Physical State: solid	Water Solubility: 140 g/L @ 24 °C
Appearance: White granular solid.	Other Solubilities:
Odor: None	Boiling Point:
Vapor Pressure: ?? mm Hg at ?? °F (?? °C)	Freezing/Melting Point:
Vapor Density (Air=1):	Decomposition Temperature: Self-accelerating decomposition with oxygen release starting from 50 °C (122 °F)
Formula Weight:	Viscosity:
Density/Specific Gravity (H₂O=1, at 4 °C):	Refractive Index:
Bulk Density: 1.0 - 1.2 g/cm ³	Surface Tension:
PH (1% soln.): 10.4 - 10.6	% Volatile:
	Evaporation Rate:

Section 10 - Stability and Reactivity

Stability: Sodium Percarbonate is stable at room temperature in closed containers under normal storage and handling conditions.
Polymerization: Hazardous polymerization has not been reported.
Chemical Incompatibilities: Acids, bases, salts of heavy metal, reducing agents, organic materials and water.
Conditions to Avoid: Moisture and extreme heat.
Hazardous Decomposition Products: Thermal oxidative decomposition of Sodium Percarbonate can produce oxygen.

Section 11- Toxicological Information**Toxicity Data:***

Eye Effects: severe damage (rabbit)	Acute Inhalation Effects:
Skin Effects: Slightly irritating (rabbit)	Rat, inhalation, LC _{Lo} : > 4580 mg/m ³
Dermal Route - LD_{Lo}, rabbit: > 2000mg/kg	
Chronic Effects:	Acute Oral Effects:
Carcinogenicity:	Rat, oral, LD ₅₀ : 1034 mg/kg
Mutagenicity:	
Teratogenicity:	

* See NIOSH, RTECS (????0000), for additional toxicity data.

Section 12 - Ecological Information

Ecotoxicity: Fish, Pimephales, LC50, 70.7 mg/L
 Fish, Pimephales, NOEC, 96 hours, 1 mg/L
 Crustaceans, Daphnia pulex, EC50, 4.9 mg/L.
 Crustaceans, Daphnia pulex, NOEC, 48 hours, 1 mg/L.
Environmental Fate: not bioaccumuable.
Environmental Degradation: Abiotic degradation. Low toxicity of degradation products.
Soil Absorption/Mobility: Non-significant adsorption.

Section 13 - Disposal Considerations

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.
Disposal Regulatory Requirements:
Container Cleaning and Disposal:

Section 14 - Transport Information**DOT Transportation Data (49 CFR 172.101):**

Shipping Name: Sodium Carbonate Peroxyhydrate
Shipping Symbols:
Hazard Class: 5.1
ID No.: UN3378
Packing Group: III
Label: Oxidizer
Special Provisions (172.102):

Section 15 - Regulatory Information**EPA Regulations:**

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification (40 CFR 261.??): Not classified

CERCLA Hazardous Substance (40 CFR 302.4) listed/unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112

CERCLA Reportable Quantity (RQ), ?? lb (?? kg)

SARA 311/312 Codes:

SARA Toxic Chemical (40 CFR 372.65): Not listed

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ)

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

OSHA Specifically Regulated Substance (29CFR 1910.????)

State Regulations:**Section 16 - Other Information**

Disclaimer: All information, recommendations and suggestions appearing herein are based upon sources believed to be reliable. However, it is the users responsibility to determine the safety, toxicity and suitability for its own use of this product. WEGO CHEMICAL & MINERAL CORP. DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE USE BY OTHERS OF THIS PRODUCT.