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ESTD.1976 MULTI CHEM YOUR CHEMICAL PARTNER

SAFETY DATA SHEET

SODIUM PERCARBONATE

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

1.1 Product identifier:	
CAS Number:	15630-89-4
EC number:	239-554-0**.**
1.2 SYNONYMS	Sodium carbonate peroxyhydrate Sodium carbonate peroxide Disodium carbonate peroxyhydrate

SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:	It may be classified as an oxidizing solid (Category 3)
2.2 Label elements:	
Hazard Pictograms:	
Signal Word:	Warning
Hazard Statements:	**H272**: May intensify fire; oxidizer. **H315**: Causes skin irritation. **H319**: Causes serious eye irritation. **H412**: Harmful to aquatic life with long-lasting effects.
Precautionary Statements:	**P210**: Keep away from heat/sparks/open flames/hot surfaces. No smoking. **P220**: Keep/Store away from clothing/other combustible materials. **P261**: Avoid breathing dust/fume/gas/mist/vapors/spray. **P280**: Wear protective gloves/protective clothing/eye protection/face protection.

	P273: Avoid release to the environment. **P501**: Dispose of contents/container in accordance with local regulations.
2.3 Other hazards:	
Irritation:	may cause respiratory irritation or sensitization
Skin Contact:	Prolonged or repeated skin contact may lead to allergic reactions
Eye contact:	Exposure can cause redness, tearing, and discomfort
Chronic Exposure:	Irritation of eyes, skin and mucous membranes
Aggravation of pre-existing conditions	May cause to develop respiratory, eye and skin conditions from a prolong exposure.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation:	Substances
CAS No:	Description: 15630-89-4 SODIUM CARBONATE PEROXYHYDRATE
Identification number(s):	EC number: 239-554-0**.**

SECTION 4: First aid measures

4.1 Description of first aid measures	
General information:	
After inhalation:	Move to fresh air. Oxygen or artificial respiration if needed. Get immediate medical attention.
After skin contact:	Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. If irritation persists, get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.

After eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get medical attention immediately.
After swallowing:	Rinse mouth. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.. Do not use mouth-to-mouth method if victim ingested the substance. Seek immediate medical attention
4.2 Most important symptoms and effects, both acute and delayed	can cause symptoms such as respiratory irritation, skin and eye irritation, and gastrointestinal discomfort if ingested.
4.3 Indication of any immediate medical attention and special treatment needed	Harmful if swallowed. Causes serious eye damage.

SECTION 5: Firefighting measures

5.1 Extinguishing media	Water spray, foam, CO2, dry chemical powder, sandy soil. In case of fire in the surroundings: water in large amounts, water spray. In case of fire: keep drums, etc., cool by spraying with water.
5.2 Special hazards arising from the substance or mixture	May decompose at high temperatures, releasing harmful gases or vapors. May intensify fire; oxidizer. Main products: oxygen, water, sodium carbonate, may include carbon oxides, sodium oxides.
5.3 Advice for firefighters	Wear fully protective suit and respiratory device .

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Avoid breathing dust or gas. Remove all sources of ignition. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away.
6.2 Environmental precautions:	Avoid release to the environment. Prevent spills from entering waterways, drains, or soil. Inform to respective authorities.
6.3 Methods and material for containment and cleaning up:	Dilute with water, hydrolysis releases oxygen, discharge waste liquid to wastewater system. Safe burial. Clean contaminated surface thoroughly.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	Avoid contact with skin, eyes, mucous membranes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid formation of dust and aerosols. Make sure the work area has good ventilation/exhaust
Information about fire - and explosion protection:	Keep away from heat, sources of ignition, sparks or open flam
7.2 Conditions for safe storage, including any incompatibilities	Keep in a clean, dry and well-ventilated place. Keep away from fire, heat, room temperature below 30 ć.
Requirements to be met by storerooms and receptacles:	Keep container sealed. Protect from moisture and rain. Containers which are opened must be carefully resealed and kept upright to prevent leakage

Information about storage in one common storage facility:	Store away from incompatible substances such as reducing agents, water, acids, combustibles, organic materials, heavy metal salts, etc.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters	
Additional information about design of technical facilities:	A system of local and general exhaust is recommended
8.2 Exposure controls	
Personal protective equipment:	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
General protective and hygienic measures:	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	Respiratory protection: Required.
Protection of hands:	Wear appropriate chemical resistant gloves.
	Eye protection: Required
Protection of Body:	Full set of anti chemical reagent overalls, flame retardant antistatic protective clothing, choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties General Information	
Appearance: Form:	Granular solid
Colour:	White
Odour:	odorless
pH-value:	10 to 11
Melting point/Melting range:	>75°C
Boiling point/Boiling range:	No data available

Flammability (solid, gaseous):	Not combustible but enhances combustion of other substances. Risk of fire and explosion.
Ignition temperature:	Not determined
Decomposition temperature:	Not determined
Self-igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard
Explosion limits: Lower:	Not determined
Explosion limits: Upper:	Not determined
Vapour pressure:	Not determined
Density at 20 °C:	1.1 g/cm^3.
Relative density:	1.1
Vapour density:	Not determined
Evaporation rate:	Not applicable
Solubility in / Miscibility with- ·water at 20 °C:	10 g per 100 mL
Partition coefficient:(n-octanol/water)	Not determined
Viscosity:	Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity	Decomposes on contact with water. This generates fire and explosion hazard. The solution in water is a weak base. Reacts with metal and their salts, organic acids and reducing agents
10.2 Chemical stability	Slow decomposition
10.3 Possibility of hazardous reactions	If the temperature exceeds 5 ć a self-accelerating decomposition can occur, releasing heat, oxygen and steam
10.4 Conditions to avoid	Heat, flames, sparks, moisture, temperatures above 75°C, direct sunlight
10.5 Incompatible materials:	Reducing agents, water, acids, combustible, organic materials, heavy metal salts, etc.

10.6 Hazardous decomposition products	Oxygen, water, sodium carbonate; may include carbon oxides and Sodium oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects	
Acute Toxicity:	LD50 (Oral, rat): 1,034 mg/kg LC50 (Inhalation, rat): N/A LD50 (Dermal, rat): >2,000 mg/kg
Skin corrosion/Irritation:	can cause skin irritation upon contact, leading to symptoms such as redness, itching, and burning sensations.
Serious eye damage/irritation:	Causes severe eye irritation, redness, and tearing. Prolonged exposure may result in corneal damage.
Respiratory damage/irritation:	May cause respiratory irritation, coughing, and difficulty breathing.
Ingestion:	May cause gastrointestinal irritation, nausea, vomiting, and abdominal pain.
11.2 Additional toxicological information	
Aquatic Toxicity:	can be harmful to aquatic organisms,
Biodegradability:	It breaks down in the environment, releasing hydrogen peroxide, which is also subject to further degradation.

SECTION 12: Ecological information

12.1 Toxicity **Aquatic toxicity:**	96 Hr LC50 fish: 70.7 mg/l 48 Hr EC50 Daphnia: 4.9 mg/l 48 Hr EC50 Algae: 2 mg/l
12.2 Persistence and degradability:	Due to its oxidative properties, it does not persist in the environment for long periods It is considered biodegradable
12.3 Bioaccumulative potential:	low

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12.4 Mobility in soil:	High solubility
12.5 Other adverse effects	can be harmful to aquatic life, particularly if released in high concentrations. Can cause allergic skin reactions or respiratory issues. can react with strong acids or reducing agents,leading to the release of heat and potentially hazardous conditions. Can cause respiratory irritations.

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Uncleaned packaging: **Recommendation:**	Disposal must be made according to official regulations.
Recommended cleansing agents:	Water, Detergent Solutions, Solvent-based Cleaners, pH-neutral Cleaners

SECTION 14: Transport information

14.1 UN-Number · ADR, ADN, IMDG, IATA:	UN 3378
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:	SODIUM CARBONATE PEROXYHYDRATE
14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :	Division 5.1 oxidizing Substances
14.4 Packing group · ADR, IMDG, IATA:	PG 2
14.5 Environmental hazards:	can disrupt local ecosystems if introduced in large quantities.
14.6 Special precautions for user	Use appropriate, sealed containers to prevent moisture exposure, which can cause degradation and release oxygen. Ensure containers are labeled clearly with hazard warnings.

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU	Directive 2012/18/EU, under that this substance is classified as oxidizing agent.
Named dangerous substances	ANNEX I Substance is not listed
15.2 Chemical safety assessment:	Chemical assessment has been carried out to check for potential hazard

SECTION 16: Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.