

1. IDENTIFICATION

Product Name	Sodium Percarbonate (PG-II)
Other Names	Disodium carbonate, compound with hydrogen peroxide (2:3); Sodium carbonate, peroxide; Sodium carbonate, peroxyhydrate; Sodium Percarbonate Coated
Uses	Bleaching/cleaning agent; Manufacture of cleaning/washing agents and additives.
Chemical Family	No Data Available
Chemical Formula	2Na ₂ CO ₃ ·3H ₂ O ₂
Chemical Name	Carbonic acid, disodium salt, compound with hydrogen peroxide (2:3)
Product Description	No Data Available

Supplier	UDS PTY LTD
Address	3 SPIRETON PLACE, PENDLE HILL, NSW 2145
Telephone	02 9688 2022
Emergency	NSW Poisons Information Centre 13 11 26
Email	consumables@udcs.com.au
Web Site	www.universaldrycleaningsolutions.com.au

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Poisons Information Centre	Westmead NSW	1800-251525 131126
Chemcall	Australia	1800-127406 +64-4-9179888

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Schedule 6

Globally Harmonised System

Hazard Classification Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Hazard Categories Oxidising Solids - Category 3

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Acute Toxicity (Oral) - Category 4
 Serious Eye Damage/Irritation - Category 1

Pictograms



Signal Word

Danger

Hazard Statements

H272 May intensify fire; oxidizer.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
N29.3 Hazardous to terrestrial vertebrates

Precautionary Statements

Prevention	P270	Do not eat, drink or smoke when using this product.
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P220	Keep away from clothing and other combustible materials.
	P280	Wear protective gloves/protective clothing/eye protection/face protection and suitable respirator.
Response	P370 + P378	In case of fire: Use water for extinction.
	P305 + P351 + P338 + P310	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 CENTRE/doctor.
	P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
	P330	Rinse mouth.
Disposal	P501	Dispose of contents/container in accordance with local / regional / national / international regulations.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification

Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Safe Work Australia

National Guide for Classifying Hazardous Chemicals under the Model WHS Regulations

Hazard Classification

Hazardous according to the criteria of Safe Work Australia under Model WHS Regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Sodium percarbonate	2Na ₂ CO ₃ ·3H ₂ O ₂	15630-89-4	>=80 %
Sodium carbonate	Na ₂ CO ₃	497-19-8	<=11 %
Sodium sulfate	Unspecified	7757-82-6	<=10 %
Sodium chloride	NaCl	7647-14-5	<=5 %

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General Response Procedure	Ensure adequate ventilation - Ventilate closed spaces before entering. Prevent exposure to heat, ELIMINATE all ignition sources. Do not contaminate - Keep combustibles away from spilled material. Do not touch or walk through spilled material. Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.
Clean Up Procedures	Use clean, non-sparking tools to transfer material to a clean, dry plastic container for disposal (see SECTION 13). Move container from spill area.
Containment	Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas.
Decontamination	Following product recovery, flush area with water.
Environmental Precautionary Measures	Spillages and decontamination runoff should be prevented from entering drains and watercourses.
Evacuation Criteria	Spill or leak area should be isolated immediately. evacuate personnel to safe areas. Keep unauthorised personnel away. Keep upwind and to higher ground. *Large spill: Immediately contact Police or Fire Brigade. Consider initial downwind evacuation of areas within at least 100 m.
Personal Precautionary Measures	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (see SECTION 8).

7. HANDLING AND STORAGE

Handling	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid formation of dust and aerosols. Avoid breathing dust/aerosols and contact with eyes, skin and clothing. Do not ingest. Wear protective gloves/protective clothing/eye protection/face protection and suitable respirator (see SECTION 8). OXIDISING SUBSTANCE: Prevent exposure to heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Do not contaminate - Take any precaution to avoid mixing with combustibles/organic materials. Never return unused material to storage receptacle. *Clean and dry piping circuits and equipment before any operations.
Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Keep/store away from combustibles and incompatible materials (see SECTION 10).
Container	Keep in the original container. *The container must be used exclusively for this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	There are no known exposure limits for this product. For dusts from solid substances without specific occupational exposure standards: - Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m ³ (measured as inhalable dust). - New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m ³ ; TWA = 3 mg/m ³ (respirable dust).
Exposure Limits	No Data Available
Biological Limits	No information available.
Engineering Measures	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal Protection Equipment	- Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Dust mask/particulate (P2) respirator (refer to AS/NZS 1715 & 1716). - Eyeface protection: Wear appropriate eye protection to prevent eye contact. Recommended: Chemical goggles. - Hand protection: Wear protective gloves. Recommended: Permeation resistant gloves, e.g. PVC, neoprene, natural rubber. - Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Protective suit, safety shoes/boots.
Special Hazards Precautions	No information available.

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Work Hygienic Practices Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday. Remove contaminated clothing and shoes immediately and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Crystalline powder or granules
Odour	Odourless
Colour	White
pH	10 - 11 (3% soln.)
Vapour Pressure	<10-3 Pa (@ 25 °C)
Relative Vapour Density	No Data Available
Boiling Point	Decomposes when heated
Melting Point	Decomposes when heated
Freezing Point	No Data Available
Solubility	Soluble in water (140 g/l) 24°C
Specific Gravity	2.01 - 2.16
Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	Self-accelerating decomposition temperature (SADT): >60 °C
Density	No Data Available
Specific Heat	No Data Available
Molecular Weight	314.02 g/mol
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No information available.
Potential for Dust Explosion	No information available.
Fast or Intensely Burning Characteristics	Risk of violent reaction or explosion! May explode from heat or contamination.
Flame Propagation or Burning Rate of Solid Materials	No information available.
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No information available.
Properties That May Initiate or Contribute to Fire Intensity	OXIDISING SUBSTANCE: Will accelerate burning when involved in a fire. May ignite combustibles.
Reactions That Release Gases or Vapours	Decomposition may produce irritating and/or toxic gases, including Carbon monoxide, Carbon dioxide, Sodium oxides.

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Release of Invisible Flammable Vapours and Gases Oxygen released in thermal decomposition may support combustion.

10. STABILITY AND REACTIVITY

General Information OXIDISER: May intensify fire; will react with reducing agents and organic compounds to produce heat and could potentially catch fire. Sodium percarbonate in water rapidly dissociates into hydrogen peroxide and sodium carbonate.

Chemical Stability Stable under normal temperature conditions and recommended use.

Conditions to Avoid Prevent exposure to heat, hot surfaces, sparks, open flames and other ignition sources. Do not contaminate. Protect from moisture. To avoid thermal decomposition, do not overheat.

Materials to Avoid Incompatible/reactive with water, acids, reducing agents, combustible/organic materials, powdered metals.

Hazardous Decomposition Products Decomposition may produce irritating and/or toxic gases, including Carbon monoxide, Carbon dioxide, Sodium oxides. Oxygen released in thermal decomposition may support combustion.

Hazardous Polymerisation Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

General Information

- Acute toxicity: Harmful if swallowed.
- Skin corrosion/irritation: May cause skin irritation with prolonged contact.
- Eye damage/irritation: Causes serious eye damage.
- Respiratory/skin sensitisation: The available data indicate that sodium percarbonate is not a skin sensitiser [NICNAS].
- Germ cell mutagenicity: Sodium percarbonate is not expected to have genotoxic potential [NICNAS].
- Carcinogenicity: Sodium percarbonate is not expected to have a carcinogenic potential [NICNAS].
- Reproductive toxicity: Sodium percarbonate is not expected to have a toxic potential for reproduction or foetus development [NICNAS].
- STOT (single exposure): May cause slight nose and throat irritation; at high concentrations, respiratory tract irritation (mucous membranes), cough.
- STOT (repeated exposure): In case of repeated or prolonged exposure, risk of sore throat, nose bleeds, chronic bronchitis.
- Aspiration toxicity: No information available.

Information on likely routes of exposure:

- Ingestion: Causes severe irritation of the mouth, throat, oesophagus and stomach; bloating of stomach, belching, nausea, vomiting and diarrhoea.
- Eye contact: Causes severe eye irritation, watering and redness; can cause burns to the eye with risk of serious or permanent eye lesions.
- Skin contact: May cause skin irritation with prolonged contact.
- Inhalation: May cause slight nose and throat irritation; at high concentrations, respiratory tract irritation (mucous membranes), cough.

Chronic effects: In case of repeated or prolonged exposure, risk of sore throat, nose bleeds, chronic bronchitis.

Acute

Ingestion Acute toxicity (Oral):
 COMPONENT: Sodium percarbonate (CAS No. 15630-89-4):
 - LD50, Rat: 1,034 mg/kg bw. [NICNAS].

Carcinogen Category None

12. ECOLOGICAL INFORMATION

Ecotoxicity Aquatic toxicity:
 COMPONENT: Sodium percarbonate (CAS No. 15630-89-4):

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- LC50, Fish (Pimephales promelas): 70.7 mg/l (96 h) [Supplier's SDS].
 - EC50, Crustacea (Daphnia pulex): 4.9 mg/l (48 h) [Supplier's SDS].

Persistence/Degradability	Sodium percarbonate dissociates in water into hydrogen peroxide and sodium carbonate.
Mobility	Volatilisation of hydrogen peroxide from surface waters and moist soil is expected to be very low, while it is expected to be highly mobile in soil.
Environmental Fate	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Bioaccumulation Potential	Both sodium carbonate and hydrogen peroxide are inorganic chemicals which do not bioaccumulate.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Dispose of contents/container via a licensed professional waste disposal service and in accordance with local/regional/national regulations.
Special Precautions for Land Fill	Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name	SODIUM CARBONATE PEROXYHYDRATE
Class	5.1 Oxidising Substances
Subsidiary Risk(s)	No Data Available
EPG	31 Oxidizing Substances
UN Number	3378
Hazchem	1Y
Pack Group	II
Special Provision	No Data Available

Sea Transport

IMDG Code

Proper Shipping Name	SODIUM CARBONATE PEROXYHYDRATE
Class	5.1 Oxidising Substances
Subsidiary Risk(s)	No Data Available
UN Number	3378
Hazchem	1Y
Pack Group	II
Special Provision	No Data Available
EMS	F-A, S-O
Marine Pollutant	No

Air Transport

IATA DGR

Proper Shipping Name	SODIUM CARBONATE PEROXYHYDRATE
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Class	5.1 Oxidising Substances
Subsidiary Risk(s)	No Data Available
UN Number	3378
Hazchem	1Y
Pack Group	II
Special Provision	No Data Available

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification	Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
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15. REGULATORY INFORMATION

General Information	SODIUM PERCARBONATE
Poisons Schedule (Aust)	Schedule 6

National/Regional Inventories

Australia (AIC)	Listed
Canada (DSL)	Listed
Canada (NDSL)	Not Determined
China (IECSC)	Listed
Europe (EINECS)	239-707-6
Europe (REACH)	Not Determined
Japan (ENCS/METI)	Listed
Korea (KECI)	Listed
Malaysia (EHS Register)	Not Determined
New Zealand (NZIoC)	Listed
Philippines (PICCS)	Not Determined
Switzerland (Giftliste 1)	Not Determined
Switzerland (Inventory of Notified Substances)	Not Determined
Taiwan (NCSR)	Not Determined
USA (TSCA)	Listed

16. OTHER INFORMATION

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Related Product Codes	SOPERC1000, SOPERC1001, SOPERC1002, SOPERC1003, SOPERC1004, SOPERC1005, SOPERC1006, SOPERC1007, SOPERC1008, SOPERC1009, SOPERC1010, SOPERC1011, SOPERC1012, SOPERC1013, SOPERC1014, SOPERC1500, SOPERC1800, SOPERC1801, SOPERC1802, SOPERC1803, SOPERC1804, SOPERC1805, SOPERC2000, SOPERC2001, SOPERC2002, SOPERC2003, SOPERC2004, SOPERC2005, SOPERC2006, SOPERC2007, SOPERC2008, SOPERC2100, SOPERC2500, SOPERC3000, SOPERC3500, SOPERC3600, SOPERC4000, SOPERC4200, SOPERC4250, SOPERC4300, SOPERC4301, SOPERC4305, SOPERC4400, SOPERC4401, SOPERC4402, SOPERC4403, SOPERC4404, SOPERC4405, SOPERC4406, SOPERC4407, SOPERC4408, SOPERC4410, SOPERC4450, SOPERC4500, SOPERC4600, SOPERC4601, SOPERC4602, SOPERC4603, SOPERC5000, SOPERC5700, SOPERC6000, SOPERC6001, SOPERC6100, SOPERC6101, SOPERC6200, SOPERC6201, SOPERC6300, SOPERC6350, SOPERC6500, SOPERC6501, SOPERC6600, SOPERC6601, SOPERC6700, SOPERC6701, SOPERC6702, SOPERC6800, SOPERC6900, SOPERC6900, SOPERC7000, SOPERC7100, SOPERC7200, SOPERC7500, SOPERC8000, SOPERC8500, SOPERC9000, SOPERC9300, SOPERC9500
Revision	6
Revision Date	23 Nov 2023
Reason for Issue	Update SDS
Key/Legend	<p>< Less Than > Greater Than</p> <p>AICS Australian Inventory of Chemical Substances atm Atmosphere CAS Chemical Abstracts Service (Registry Number) cm² Square Centimetres CO₂ Carbon Dioxide COD Chemical Oxygen Demand deg C (°C) Degrees Celcius EPA (New Zealand) Environmental Protection Authority of New Zealand deg F (°F) Degrees Fahrenheit g Grams g/cm³ Grams per Cubic Centimetre g/l Grams per Litre HSNO Hazardous Substance and New Organism IDLH Immediately Dangerous to Life and Health immiscible Liquids are insoluble in each other. inHg Inch of Mercury inH₂O Inch of Water K Kelvin kg Kilogram kg/m³ Kilograms per Cubic Metre lb Pound LC50 LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours. LD50 LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals. ltr or L Litre m³ Cubic Metre mbar Millibar mg Milligram mg/24H Milligrams per 24 Hours mg/kg Milligrams per Kilogram mg/m³ Milligrams per Cubic Metre Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present. mm Millimetre mmH₂O Millimetres of Water mPa.s Millipascals per Second N/A Not Applicable NIOSH National Institute for Occupational Safety and Health NOHSC National Occupational Health and Safety Commission OECD Organisation for Economic Co-operation and Development Oz Ounce PEL Permissible Exposure Limit Pa Pascal ppb Parts per Billion ppm Parts per Million ppm/2h Parts per Million per 2 Hours</p>

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ppm/6h Parts per Million per 6 Hours
psi Pounds per Square Inch
R Rankine
RCP Reciprocal Calculation Procedure
STEL Short Term Exposure Limit
TLV Threshold Limit Value
tnr Tonne
TWA Time Weighted Average
ug/24H Micrograms per 24 Hours
UN United Nations
wt Weight