

Material Safety Data Sheet

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Infosafe No. AE2I5 Issue Date : December 2005 ISSUED by AMTRADE

Product Name : **SODIUM PERCARBONATE (UNCOATED)**

Classified as hazardous

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name SODIUM PERCARBONATE (UNCOATED)
Product Use Oxidizer, bleaching, sterilising agent. Used in heavy duty laundry detergents, deck cleaners, carpet cleaners, denture cleaners, personal care formulations, food bleaching applications. Also used in textile, pulp and paper processing. A substitute for Sodium Perborate.
Company Name Amtrade International Pty Ltd (ABN 49 006 409 936)
Address Level 6, 574 St Kilda Road
Melbourne
VIC. 3004 Australia
Emergency Tel. 1800 033 111 Aust
Telephone/Telex Number Tel: 61 3 9229 9229 Fax: 61 3 9229 9290
Other Names

<u>Name</u>	<u>Product Code</u>
o	
Sodium Percarbonate (Uncoated) 1000kg	358746
Sodium Percarbonate (Uncoated) 25kg	356212
Sodium Percarbonate (Uncoated) 500kg	371270
o	
o	
o	
Peroxy Sodium Carbonate; Alkaline Hydrogen Peroxide; Sodium Carbonate Peroxide; Sodium Carbonate Peroxyhydrate.	
o	
NOTE: The new UN 3378 is required, from the 1st Jan 2006 by the IMDG Code, for product Shipped into Australia.	
o	
ADG 6th Edition: Proper Shipping Name: OXIDISING SOLID, N.O.S. (SODIUM PERCARBONATE)	
UN 1479 Class 5.1 Hazchem 1Y GTEPG 5A1 Pack Grp II .	

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Solid

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Active Oxygen Content	7782-44-7	14-15 %		
	Sodium Carbonate (Total=Free+Contained)	497-19-8	>60%		
	Hydrogen Peroxide (Contained in the Product)	7722-84-1	>29%		
	Moisture	7732-18-5	<0.5% *		
	Sodium Chloride	7647-14-5	<4%		
	Sodium Carbonate (Free)	497-19-8	<6%		
	Sodium Percarbonate	15630-89-4	>88%		

Other Information * Typical value, but 2% maximum.

3. HAZARDS IDENTIFICATION

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Workplace Hazardous Substance.
HAZARD CATEGORY: OXIDIZING, HARMFUL, IRRITANT
Contact with combustible material may cause fire. Harmful if swallowed.
Irritating to eyes, respiratory system and skin. Risk of serious damage to eyes.
.
Dangerous Goods Labelling required, see Dangerous Goods Regulations.
Note: New UN 3378 required by the IMDG Code for Shipping into Australia from 1st Jan 2006.
Use the HB76 Handbook and Initial Emergency Response Guide 31.
.
Schedule Poison: S6
.

Other Information Not combustible, but an oxidising agent - mixtures with combustible materials are readily ignited and may burn fiercely.
.

4. FIRST AID MEASURES

Inhalation Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek immediate medical attention.

Ingestion Immediately rinse mouth with water. If conscious, give water to drink. Do NOT induce vomiting. Seek immediate medical assistance.

Skin Immediately wash contaminated skin with plenty of soap and water. Remove contaminated clothing including footwear and wash before re-use. If swelling, redness, blistering, or irritation occurs seek medical advice.

Eye Immediately hold eye lids open and wash continuously with water for at least 15 minutes. Retract eyelids often. Seek immediate medical assistance. Consult with an ophthalmologist in all cases.

First Aid Facilities Safety shower, eye wash plus normal washroom facilities nearby.

Advice to Doctor Treat symptomatically.
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5. FIRE FIGHTING MEASURES

Oxidising agent. Will cause combustible materials to burn more fiercely. Can explode if heated rapidly or heated in confined space. Containers will need to VENT, particularly if heated. Above 50°C, decomposition with further release of heat occurs. If safe to do so, remove containers from path of fire. Otherwise, cool the fire exposed containers from a safe distance.
.
HAZARDOUS DECOMPOSITION PRODUCTS: On heating above 50°C it will emit large volumes of oxidising vapours of hydrogen peroxide and oxygen, (both increase the fire hazard), and finally at >400°C carbon dioxide. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of decomposition.
.
EXTINGUISHING MEDIA: Water or Water fog or Foam (large quantities may be needed to overcome the accelerating hot decomposition of this product which will release large volumes of oxygen).
Unsuitable Media - Carbon Dioxide; Dry agent.
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Decomposition Temp. >50°C (O2 evolution starts); >400°C (CO2 evolved)

6. ACCIDENTAL RELEASE MEASURES

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SPILLAGE: Clear area of all unprotected personnel. Wear protective equipment to prevent skin and eye contamination and inhalation of dust. Sweep up, but avoid generating dust. Do not return spilled contaminated material to containers with pure material. Collect in properly labelled containers for reuse or disposal. Wash area down with excess water.

Do NOT mix with combustible absorbent materials such as sawdust, as a fire may occur. Ensure any contaminated surfaces made from combustible materials, such as wood or cardboard have the oxidising powder completely removed.

7. HANDLING AND STORAGE

HANDLING: Avoid contamination of opened product: Contamination may cause explosive decomposition. Do NOT store the scoops in the same container as the Sodium Percarbonate in order to minimise skin contact. Containers must be able to VENT any released gases.

STORAGE: Keep dry. Store in a cool place (<40°C), out of direct sunlight. Store away from sources of heat or ignition, combustible materials (e.g. wooden pallets and cardboard), reducing agents, strong acids or alkalis and rust or other contaminants. Stainless steel, polyethylene, PVC scoops may be used. Do not allow to come into contact with iron, copper, lead or chromium etc.

Store in accordance with Dangerous Goods (Storage & Handling) Regulations and AS4326 Storage & Handling of Oxidizing Agents.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Exposure Limits There are no specific Australian exposure standard.
Nuisance Dust 10 mg/m3 TWA

Hydrogen Peroxide and Oxygen are formed when the moist salt decomposes:
Hydrogen Peroxide 1 ppm 1.4 mg/m3 TWA

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Personal Protective Equipment Avoid skin and eye contact. Avoid inhaling the dusts. Follow normal industrial safety practices. The use of protective clothing and equipment depends on the degree of exposure.

The following personal protective equipment should be used:
(1). Safety glasses with side shields, goggles or faceshield as appropriate.
(2). Protective gloves (e.g. rubber, butyl rubber, neoprene, PVC).
(3). Chemical resistant safety shoes or boots (e.g. rubber)
(4). Neoprene, vinyl or rubber oversuit or apron over workclothes.
Workclothes should fully cover arms and legs.
Use organic filter or airline respirators if a risk of overexposure exists.

Where applicable refer to the following Standards:
AS/NZS 1337 Eye protectors for industrial applications.
AS 2161 Industrial safety gloves and mittens.
AS 2210 Safety footwear.
AS 3765 Clothing for protection against hazardous chemicals.
AS 1715 Selection, use and care of respiratory protection devices.
AS 1716 Respiratory protection devices.

SPECIAL PRECAUTIONS: Impregnated materials and clothing must be cleaned and handled so that there is no risk of a fire starting.
- immediately change contaminated clothing.
- wash contaminated clothing and protective equipment daily before storing and re-using, in a water based washing system.
- do NOT allow soiled clothing to dry out prior to being washed.
Keep thoroughly wetted.

Always wash hands before smoking, eating, drinking or using the toilet.
Do not wear contact lenses as they may trap irritant particles and cause irritation to the eyes.

Eng. Controls Avoid generating dusts. Use with local exhaust ventilation.
Keep containers vented - do NOT seal hermetically.
Remove all heat sources that could cause decomposition. Keep dry.
Remove all ignition sources that may ignite combustible material contaminated with sodium percarbonate.
During formulation ambient temperature and humidity should be monitored as well as the temperature of the blend. If the blend becomes hot, it should be moved to a safe, well ventilated area to react, then cool.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance White, free flowing, granules with no odour.
Decomposition Temperature >50°C (O2 evolution starts); >400°C (CO2 evolved)
Melting Point Decomposes >50°C
Boiling Point Not applicable
Specific Gravity (H2O=1) 0.90-0.99
pH Value 10-11 (3% sol'n)
Vapour Pressure Not applicable
Vapour Density (Air=1) Not applicable
Volatile Component <0.5% (moisture); 30% (hydrogen peroxide)
Flash Point Not applicable
Flammability Not combustible, but an oxidising agent - mixtures with combustible materials are readily ignited and may burn fiercely.
Ignition Temperature Not available
Flammable Limits LEL Not applicable

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Explosion Properties Not applicable
Molecular Weight 157 [Na₂CO₃*1.5(H₂O₂)]
Sodium Percarbonate: 2(Na₂-CO₃)*3(H₂O₂) or (Na₂-CO₃)*1.5(H₂O₂)
Other Information SOLUBILITY: Soluble in water 140 g/L at 20°C
ACTIVE OXYGEN CONTENT: >14%
BULK DENSITY: 700-1100 kg/m³ (Uncoated Type)

10. STABILITY AND REACTIVITY

Oxidising agent. Reacts vigorously with reducing agents and other chemicals. Causes combustible materials to burn more readily. Mixtures with combustible materials are sensitive to friction and are liable to ignite.

Stable in the dry state. HOWEVER, wetted product decomposes, forming hydrogen peroxide, and evolving oxygen. This may cause combustion of organic materials. Hydrolyses in water to sodium carbonate and hydrogen peroxide.

Stable if kept cool (<40°C). WHEN HEATED to decomposition (>50°C) it evolves oxygen initially, followed by carbon dioxide (>400°C). Decomposes in contact with many metals. If the metals are powders this will allow rapid reaction and combustion. Salts of heavy metals catalyse decomposition.

HAZARDOUS REACTION: Mixing with a metal dust (such as aluminium) in presence of moisture may cause a fire.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen peroxide; Excess oxygen levels; Carbon dioxide.

HAZARDOUS POLYMERISATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information Acute Oral Toxicity LD50 (rat, male & female) : 1034 mg/kg (UN ST/SG/AC.10/C.3/2001/35 19 Sept 2001 New Entry for Sodium Carbonate Peroxyhydrate)
Acute Oral Toxicity LD50 (rat) : 2400 mg/kg (RTECS FG0750000)
Acute Oral Toxicity LD50 (mouse) : 2200 mg/kg (RTECS FG0750000)
Acute Skin Toxicity LD₅₀ (rabbit) : >2000 mg/kg
Acute Inhal'n Toxicity LCL₀ (rat, 1hr) : >4580 mg/m³
SENSITISATION (Buehler Test, G'Pig) : Not sensitising

Inhalation Inhalation of dust will result in inflammation of the nose and respiratory irritation. May cause nasal discharge, respiratory distress and coughing.

Ingestion Harmful if swallowed. Ingestion can result in nausea, bloating of the stomach - belching, vomiting, gastrointestinal irritation, possible burns, tremors and abdominal pain.

Skin Contact with skin can result in irritation, particularly if skin is moist. Do NOT allow contact with broken or irritated skin as the effects are more severe.

Eye Severe eye irritation. On prolonged contact is oxidizing to the eyes; risk of serious or permanent eye burns. Causes watering, redness and tearing.

Chronic Effects Repeated or prolonged skin contact may lead to contact dermatitis.
Repeated or prolonged inhalation contact may cause nose bleeds and chronic bronchitis.

12. ECOLOGICAL INFORMATION

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This substance will be hazardous to the environment in high concentrations. Water polluting substance due to its alkaline and oxidising effects. Do not allow to enter water ways. Product reacts with water forming an alkaline solution containing hydrogen peroxide / oxygen.

Aquatic Crustacean Toxicity EC50 (Daphnia Pulex): 4.9 mg/L
Aquatic Fish Toxicity LC50 (Pimephales Promelas): 70.7 mg/L

Not able to bioaccumulate. Degrades to low toxicity products.

13. DISPOSAL CONSIDERATIONS

DISPOSAL: In accordance with Local, State & Federal EPA waste regulations. Advise its oxidising, harmful, irritant and sensitising nature. This oxidizing agent may be rendered harmless by careful reduction with dilute solutions of reducers e.g. thiosulfate solution, bisulfite solution or ferrous salts. After the reaction has finished carefully neutralise the aqueous solution.

14. TRANSPORT INFORMATION

Transport in accordance with the Australian Code for the Transport of Dangerous Goods by Road & Rail; by the IATA Air Transport Dangerous Goods Regulations; and by the IMDG (International Maritime Dangerous Goods) Code.

IMDG Proper Shipping Name: SODIUM PERCARBONATE PEROXYHYDRATE
IMDG UN 3378

The Competent Authorities Panel have considered the matter and approved and agreed that we may use the UN 3378 identification which is in line with the IMDG Code to transport the above substances in Australia.

The Competent Authorities Panel agreed also that their determination/approval may be adopted by all persons that may be involved in the transport and use of these substances.

This determination/approval continues in force until it is replaced by the adoption of the seventh edition of the ADG Code by each jurisdiction.

When consigned for transport the emergency information provided as part of the documentation may be achieved by ensuring that the current, 2004 edition, of the Initial Emergency Response Guide is available.

May still be transported in Australia under the ADG Code 6th Edition as:
OXIDISING SOLID, N.O.S. (SODIUM PERCARBONATE)
UN 1479 Class 5.1 Hazchem 1Y GTEPG 5A1 Packing Group II

U.N. Number 3378
DG Class 5.1
Hazchem Code 1Y
EPG Number 5A1
Packing Group II

15. REGULATORY INFORMATION

Poisons Schedule S6

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Packaging & Labelling

Workplace Hazardous Substance.
HAZARD CATEGORY: OXIDIZING, HARMFUL, IRRITANT
R8 - Contact with combustible material may cause fire.
R22 - Harmful if swallowed.
R36/37/38 - Irritating to eyes, respiratory system and skin.
R41 - Risk of serious damage to eyes.
.
S15/17 Keep away from heat and combustible material.
S8/9 Keep container dry in a well ventilate place.
S51 Use only in well ventilated areas.
S22/24/25 Do not breathe dust. Avoid contact with skin and eyes.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of water.
.
Dangerous Goods Labelling required, see Dangerous Goods Regulations.
.
This product contains ingredient/s that classifies it as a Schedule Poison, BUT Labelling as a Schedule Poison is NOT REQUIRED if the product, is packed and sold solely for Dispensary, Industrial, Laboratory or Manufacturing purposes; and is labelled in accordance with the Australian National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012].
.
AICS (Australia) All ingredients are on the Australian Inventory of Chemical Substances.
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16. OTHER INFORMATION

Key Changes: Converted to a 16 Part MSDS.
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Contact Person/Point For EMERGENCIES ONLY Contact : 1800 033 111 (All Hours Australia)
0800 734 607 (All Hours New Zealand)

Amtrade International Pty Ltd: 61 3 9229 9229 (Melbourne)
61 2 9805 4200 (Sydney)
Amtrade New Zealand Limited : 64 9 579 6767 (Auckland)

NOTE: This MSDS summarises our best knowledge of the health and safety hazard information on the product, and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company, or in the event of an emergency, the Emergency Response number above.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

...End Of MSDS...