

Safety Data Sheet

ISSUE DATE: 15/07/2018

COLOUR SAFE

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1. Identification

GHS Product identifier	Colour Safe (Oxygenated bleach powder)
Company Name	Blue Lion Supplies Pty. Ltd.
Address	Fact. 3, 29 Barry Street, BAYSWATER, VIC 3153
Telephone	(03) 9720 1577
Fax Number	(03) 9720 1799
Contact	Jim Gillman
Recommended use of the chemical and restrictions on use	Home laundry bleaches, Oxidation of dyestuffs, Textile bleaching, Commercial laundry uses, Stain removal compounds. Recommended concentrations are generally between 10-20 gms per 15 kg wash load. It is safe to use on all cotton and synthetic clothing and fabrics in hot or cold water.
Other Names	Sodium Perborate
Other Information	Emergency contact: Mobile: 0412 646 246

2. Hazard Identification

Classified as Hazardous according to the criteria of Safework Australia.

GHS classification of the substance/mixture	Reproductive toxicity Specific organ exposure toxicity (single exposure) Serious eye damage Acute toxicity (oral) Oxidising solids	Category 1B Category 3 Respiratory system Category 1 Category 4 Category 2
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Signal Word (s) DANGER
WARNING

Hazard Statement(s)
H272 May intensify fire; oxidiser.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H335 May cause respiratory irritation
H360Df Suspected of damaging fertility. Suspected of damaging the unborn child.

Risk phrases
R37 Irritating to respiratory system.
R41 Risk of serious damage to eyes.
R61 May cause harm to the unborn child.
R62 Possible risk of impaired fertility.

Pictogram (s)



Precautionary statement - Prevention

P201 Obtain special instructions before use.
P210 Keep away from heat.
P221 Take any precaution to avoid mixing with combustibles.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P281 Use personal protective equipment as required.

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

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Storage
P310 Immediately call a POISON CENTER or doctor/ physician.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P405 - Store locked up
P501 - Dispose of contents/container to comply with local, state and federal regulations

3. Composition/information on ingredients

<u>Hazardous ingredients</u>	<u>CAS no.</u>	<u>Proportion</u>	<u>Hazard symbol</u>	<u>Risk phrase</u>
Sodium Perborate Tetrahydrate	10486-00-7	VHIGH	T	R61; R62; R37; R41

KEY: Proportion, (wt %) - V HIGH >60, HIGH 30 - 60, MED 10 -29, LOW 1-9, V LOW <1

4. First-aid measures

Ingestion	Rinse mouth thoroughly with water immediately. Give water to drink. DO NOT induce vomiting. If vomiting occurs, have victim lean forward to reduce risk of aspiration. If vomiting occurs give further water to achieve effective dilution. Seek immediate medical assistance.
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek urgent medical assistance.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance. If available, a neutral saline solution may be used to flush the contaminated eye/s an additional 30 minutes.
Inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically.
Other Information	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26_ New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from Combustion	Borane/boron oxides, Sodium oxides
Suitable extinguishing media	Use extinguishing media most appropriate for the surrounding fire. Small fire: Use dry chemical, CO2 or water spray. Large fire: Use water spray, fog or foam If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.
Specific hazards arising from the chemical with fire	No specific fire hazards associated with product. .

6. Accidental release measures

Personal Precautions	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
Personal Protection	Gloves. Face-shield. Dust cloud production: compressed air/oxygen apparatus. Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods	Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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7. Handling and storage

Precautions for Safe

Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition.

Conditions for safe storage,

including any

Incompatibilities

Store in a cool, dry place. Keep containers securely sealed. Keep away from heat and sources of ignition. Moisture sensitive.

8. Exposure controls/personal protection

Occupational exposure limit

values

Name	STEL		TWA		Footnote
	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	
Nuisance dust			10		

There are no occupational exposure standards set for this product, however a TWA of 10mg/m³ for nuisance dusts is recommended when handling this product.

Other exposure

Information

The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

Appropriate engineering

Controls

In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

Personal Protective

Equipment

Avoid skin and eye contact. Avoid creating dusts – irritating to respiratory system. Wear personal protective equipment outlined below when handling this product.

Respiratory Protection

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-face piece SCBA should be used. If respiratory protection is required; institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

Eye Protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Hand Protection

Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.

Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

Recommendation: Nitrile rubber.

Footwear

Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection

Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hygiene Measures

Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material. Maintain good housekeeping.

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9. Physical and chemical properties

Appearance	White free-flowing granulated powder
Boiling Point/	
Melting Point(°C)	Not Available
Vapour Pressure	Not Available
Percent Volatile	Not Available
pH (concentrate)	10.0 - 10.4
Solubility in water	Complete to approx 375g/kg solution
Flash Point (°C)	None, Non-flammable

10. Stability and reactivity

Chemical Stability	Stable under normal use conditions.
Conditions to Avoid	High temperature, moisture and sources of ignition.
Incompatible Materials	Metals, Metallic salts, acids, Bases, Reducing agents
Hazardous Decomposition products	Borane/boron oxides, Sodium oxides
Possibility of hazardous reactions	Not expected to occur.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute toxicity

LDLO Oral - Infant - 400 mg/kg
LDLO Oral - Child - 250 mg/kg
LDLO Oral - Human - 214 mg/kg
LD50 Oral - Rat - 1,200 mg/kg
Remarks: Behavioral: Convulsions or effect on seizure threshold. Behavioral: Muscle weakness.
LD50 Dermal - Rabbit - > 2,000 mg/kg
Skin corrosion/irritation
Skin - Rabbit
Result: No skin irritation
Serious eye damage/eye irritation
Eyes - Rabbit
Result: Severe eye irritation
Respiratory or skin sensitisation - No data available

Germ cell Mutagenicity

No data available

Carcinogenicity

IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Reproductive toxicity - Rat - Oral
Maternal Effects: Other effects. Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Effects on Embryo or Fetus: Extra embryonic structures (e.g. placenta, umbilical cord).
Presumed human reproductive toxicant May damage the unborn child. Suspected of damaging fertility.
Developmental Toxicity - Rat - Oral
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).
Developmental Toxicity - Rat - Oral
Specific Developmental Abnormalities: Musculoskeletal system. Specific Developmental Abnormalities: Cardiovascular (circulatory) system.

Specific target organ toxicity - single exposure

The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

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Specific target organ toxicity

- repeated exposure No data available

Aspiration hazard No data available

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

Symptoms that may arise if the product is mishandled are:

ACUTE EFFECTS

Swallowed

Swallowing can result in irritating mouth, oesophagus and stomach. Headaches and nausea possible.

Eye Powder and solutions are irritants to eyes and mucous membranes. Overexposure may lead to eye tissue damage.

Skin In the concentrated form, prolonged skin contact without rinsing may irritate skin upon contact. Skin inflammation is characterized by a burning sensation, itching, scaling or reddening. Dermatitis may develop depending on the individual's sensitivity.

Inhaled Breathing excessive amounts of dust may produce nasal and upper respiratory irritation characterised by discomfort and sore throat. Effects of prolonged occupational exposure are not known.

CHRONIC EFFECTS

No information available for product.

12. Ecological information

Toxicity

Toxicity to fish LC50 - Danio rerio (zebra fish) - 51 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 11 mg/l - 48 h

Toxicity to algae IC50 - Desmodesmus subspicatus (green algae) - 26.8 mg/l - 96 h

Persistence and

Degradability

Biodegradability Biotic/Aerobic

Result: 85 % - Readily biodegradable.

Mobility in soil

No additional information available

Other adverse effects

Harmful to aquatic life.

13. Disposal considerations

Disposal Considerations Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging Dispose of as unused product.

14. Transport information

Transport Information

U.N. Number 1479

UN proper shipping name OXIDIZING SOLID, N.O.S. (Sodium peroxometaborate tetrahydrate)

Transport hazard class(es) 5.1

Packing Group III

15. Regulatory information

Regulatory Information Listed in the Australian Inventory of Chemical Substances (AICS).

Poisons Schedule None allocated

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16. Other Information

Date of preparation or last revision of SDS 15/07/2018

References National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.
'Labeling of Hazardous Workplace Chemicals, Code of Practice' Safe Work Australia.
Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]'.
Safe Work Australia, 'Hazardous Substances Information System, 2005'.
Safe Work Australia, 'National Code of Practice for the Labeling of Safe Work Hazardous Substances (2011)'.

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.
IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS.