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SAFETY DATA SHEET – Potassium Peroxymonopersulphate

1. IDENTIFICATION

Revision Date	July 2023 (*valid for 5 years from this date)*
Product Name	Potassium Peroxymonopersulphate
Other Names	Potassium Hydrogen Peroxymonosulphate
Uses	Pool Shock
Contact Information	Chlorine Discounters Address: 43 Clapham Road, Regents Park NSW 2143 P: 02-96454433 F: 02-96454030 E: info@chlorinediscounters.com.au W: www.chlorinediscounters.com.au
Emergency Contact	Managing Director or Operations Manager

2. HAZARD IDENTIFICATION

Poisons Schedule (Aust)	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	Acute Toxicity (Oral) - Category 4 Serious Eye Damage/Irritation - Category 1 Skin Corrosion/Irritation - Category 1A Long-term Hazard To The Aquatic Environment - Category 3	
Pictograms		
Signal Word	Danger	
Hazard Statements	H302	Harmful if swallowed.
	H314	Causes severe skin burns and eye damage.
	H318	Causes serious eye damage.
	H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention	P260	Do not breathe gas/mist/vapours/spray.
	P262	Do not get in eyes, on skin, or on clothing.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
	P303 + P361 + P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
	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.
	P315	Get immediate medical advice/attention.
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)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	CAS Number	Proportions (%)
Potassium Peroxymonopersulphate	[70693-62-8]	< = 100%

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	Keep respiratory tract clear. Do NOT induce vomiting. Call a physician immediately. Rinse mouth thoroughly with water.
Eye	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
Skin	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. If on skin, rinse well with water. If on clothes, remove clothes. If symptoms persist, call a physician.

Inhaled	Call a physician or poison control centre immediately. If unconscious place in recovery position and seek medical advice. Keep respiratory tract clear. If breathed in, move person into fresh air.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of patient. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later.
Medical Conditions Aggravated by Exposure	No information available on medical conditions aggravated by exposure to this product.

5. FIRE FIGHTING MEASURES

General Measures	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.
Flammability Conditions	Product is a non-flammable solid.
Extinguishing Media	In case of fire, appropriate extinguishing media include Carbon dioxide (CO2) and Dry chemical. Do NOT use high volume water jet. Cool closed containers exposed to fire with water spray.
Fire and Explosion Hazard	Not explosive.
Hazardous Products of Combustion	Non-combustible solid. Avoid generating dust. Incompatible with accelerators, strong acids and bases, heavy metal salts, reduction mediums, impurities (rust, dust, ash) and sources of ignition. Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.
Special Fire Fighting Instructions	Do not use a solid water stream as it may scatter and spread fire. Remove undamaged containers from fire area if it is safe to do so. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Personal Protective Equipment	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves) or chemical splash suit. Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.
Flash Point	No Data Available
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	2X

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Personnel involved in the clean-up should wear full protective clothing as listed in section 8. Avoid accidents, clean up immediately. Evacuate all unnecessary personnel. Increase ventilation. Avoid walking through spilled product as it is slippery when spilt. Stop leak if safe to do so. Isolate the danger area. Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment. Shut off all possible sources of ignition.

Clean Up Procedures	Contain and sweep/shovel up spills with inert absorbent material or use an industrial vacuum cleaner. Transfer to suitable, labelled, corrosion-resistant containers and dispose of promptly as hazardous waste. Wash small residues with plenty of water. Never add other substances or waste material to product residue. Move product residue to a safe place and dispose of properly.
Containment	Stop leak if safe to do so. Isolate the danger area.
Decontamination	To clean the floor and all objects contaminated by this material, use plenty of water.
Environmental Precautionary Measures	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Evacuation Criteria	Evacuate all unnecessary personnel.
Personal Precautionary Measures	Personnel involved in the clean-up should wear full protective clothing as listed in section 8.

7. HANDLING AND STORAGE

Handling	Ensure an eye bath and safety shower are available and ready for use. Do not swallow. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product vapours. Avoid prolonged or repeated exposure. Product is hygroscopic. Never pour product residue back into storage container. Risk of decomposition. Keep away from combustible materials. Avoid dust formation. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed. No Smoking. Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Protect from moisture. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feedingstuffs.
Storage	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Protect from moisture. Store apart from other dangerous and incompatible substances. This product has a UN classification of 3260 and a Dangerous Goods Class 8 (corrosive) according to The Australian Code for the Transport of Dangerous Goods by Road and Rail.
Container	Container type/packaging must comply with all applicable local legislation. Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	Workers, Inhalation, Long-term systemic effects, 0.28 mg/m3 Workers, Inhalation, Acute systemic effects, 50 mg/m3 Workers, Inhalation, Long-term local effects 0.28 mg/m3 Workers, Inhalation, Acute local effects, 50 mg/m3 Workers, Skin contact, Long-term systemic effects, 20 mg/kg bw/day Workers, Skin contact, Acute systemic effects, 80 mg/kg bw/day Workers, Skin contact, Acute local effects, 0.449 mg/cm2
Exposure Limits	No Data Available
Biological Limits	No information available on biological limit values for this product.

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	RESPIRATOR: Wear Respirator with filter type ABEK (AS1715/1716). EYES: Tightly fitting safety goggles/Face protection (AS1336/1337). HANDS: Butyl rubber gloves (0.5mm/>=8hr break through time) (AS2161). CLOTHING: Protective suit (AS3765/2210). Remove and wash contaminated clothing before re-use.
Work Hygienic Practices	Keep away from food and drink. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Odour	Odourless
Colour	White
pH	2.3 10g/**l**
Vapour Pressure	< 0.0000017 hPatorr (@ 25 °C)
Melting Point	Decomposes
Solubility	ca. 300 g/l - soluble 20°C
Bulk Density	1.100 kg/m3
Decomposition Temperature	>80 °C
Octanol Water Coefficient log	Pow: <0.3 (20'C)
Potential for Dust Explosion	No Data Available
Reactions That Release Gases or Vapours	No Data Available

10. STABILITY AND REACTIVITY

Chemical Stability	Product is stable under normal conditions of use, storage and temperature. Corrosive Solid. Hygroscopic.
Conditions to Avoid	Avoid excessive heat, elevated temperatures, sunlight, flame, sources of ignition and shock, dust generation, moisture/high humidity, and incompatible materials. Dust may form explosive mixture in air.
Materials to Avoid	Incompatible with accelerators, strong acids and bases, heavy metal salts, reduction mediums, impurities (rust, dust, ash), and sources of ignition. Keep away from heat and sources of ignition. Protect from moisture.
Hazardous Decomposition Products	Irritant, caustic, flammable, noxious/toxic gases and vapours candevelop in the case of fire and decomposition.
Hazardous Polymerisation	Hazardous reactions: Even small amounts of moisture or impurities can noticeably reduce Self Accelerating Decomposition Temperature (SADT).

11. TOXICOLOGICAL INFORMATION

General Information	Genotoxicity in vitro, Method: OECD Test Guideline 473, Result: positive Genotoxicity in vivo, Species: Mouse, Application Route: Ingestion, Method: OECD Test Guideline 474, Result: negative. Effects on foetal development: Species: Rat, Application Route: oral (gavage), General Toxicity Maternal: No observed adverse effect level: 250 mg/kg body weight. Teratogenicity: No observed adverse effect level: >= 750 mg/kg body weight, Method: OECD Test Guideline 414 Species: Rabbit Method: OECD Test Guideline 404 Result: Corrosive Species: Rabbit Method: OECD Test Guideline 405 Result: Eye irritation Exposure routes: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: Does not cause skin sensitisation. Species: Rat NOAEL: 200 mg/kg LOAEL: 600 mg/kg Application Route: Ingestion Exposure time: 90 d Method: OECD Test Guideline 408 Species: Rat LOAEL: 2.73 mg/kg Application Route: inhalation (dust/mist/fume) Exposure time: 14 d Method: OECD Test Guideline 412roduct.
Eye Irritant	Causes serious eye damage. May cause irreversible eye damage.
Ingestion	Harmful if swallowed. Extremely corrosive and destructive to tissue.
Inhalation	Call a physician or poison control centre immediately. If unconscious place in recovery position and seek medical advice. Keep respiratory tract clear. If breathed in, move person into fresh air.
Skin Irritant	Causes burns. Extremely corrosive and destructive to tissue.
Carcinogen Category	No Data Available

12. ECOLOGICAL INFORMATION

Eco-toxicity	Toxicity to fish: LC50 (Oncorhynchusmykiss (rainbow trout)): 53 mg/l, Exposure time: 96 h Method: OECD Test Guideline 203. NOEC (Oncorhynchusmykiss (rainbow trout)): 27 mg/l, Exposure time: 96 h, Method: OECD Test Guideline 203 Toxicity to algae: ErC50 (Pseudokirchneriellasubcapitata (green algae)): > 1mg/l, Exposure time: 72 h Method: OECD Test Guideline 201 Toxicity to bacteria: EC50 (Bacteria): 100 mg/l, Exposure time: 3 h, Method: OECD Test Guideline 209 Toxicity to fish (Chronic toxicity): NOEC: 0.444 mg/l, Exposure time: 37 d, Species: Cyprinodonvariegatus (sheepshead minnow) Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity); NOEC: 0.267 mg/l, Exposure time: 96 h This product has no known ecotoxicological effects. Harmful to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

Persistence / Degradability	This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio-accumulative (vPvB) at levels of 0.1% or higher.
Mobility	No information available on mobility for this product.
Environmental Fate	Do NOT let product reach waterways, drains and sewers. Harmful to aquatic organisms.
Bioaccumulation Potential	No information available on bioaccumulation for this product.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.
Special Precautions for Land Fill	Contact a specialist disposal company or the local waste regulator for advice.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG

UN Number	3260
Shipping Name	CORROSIVE SOLID, ACIDIC, INORGANIC, NOS (Potassium Peroxomonosulfate)
Dangerous Goods Class	8 Corrosive Substance
Subsidiary Risk	Not applicable.
Pack Group	II
Precaution for User	CORROSIVE
Hazchem Code	2X
EPG	37 TOXIC AND/OR CORROSIVE SUBSTANCES Non-Combustible
Special Provision	Not applicable.



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)

15. REGULATORY INFORMATION

General Information	No Data Available
Poisons Schedule (Aust)	6
National/Regional Inventories	
Australia (AICS)	Listed

16. OTHER INFORMATION

Literature References	No data available.
Sources for Data	No data available.

Legend to Abbreviations and Acronyms

<	less than
<	greater than
ADG	Australian Dangerous Goods Code
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (Registry Number)
cm2	square centimetres
CO2	Carbon Dioxide
COD	Chemical Oxygen Demand
deg C ('C)	degrees Celsius
ERMA	Environmental Risk Management Authority
g	gram
g/cm3	grams per cubic centimetre
g/l	grams per litre
HSNO	Hazardous Substance and New Organism
IATA	International Air Transport Association Dangerous Goods Regulations
IDLH	Immediately Dangerous to Life and Health
IMDG	International Maritime Dangerous Goods Code
Immiscible	liquids are insoluble in each other
Kg	kilogram
kg/m3	kilograms per cubic metre
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	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	miscible
Miscible	liquids form one homogeneous liquid phase regardless of the amount of either component present
mm	millimetre
mPa.s	milli Pascal per second
N/A	Not Applicable
NOHSC	National Occupational Health and Safety Commission
OECD	Organization for Economic Co-operation and Development
PEL	Permissible Exposure Limit
ppb	parts per billion
ppm	parts per million
ppm/2h	parts per million per 2 hours
ppm/6h	parts per million per 6 hours
RCP	Reciprocal Calculation Procedure
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
tne	tonne
TWA	Time Weighted Average
ug/24H	micrograms per 24 hours
UN	United Nations (number)
wt	weight

This SDS summarises Chlorine Discounters best knowledge of the health and safety hazard information of the selected substance and how to safely handle the selected substance in the workplace however Chlorine Discounters expressly disclaims that the SDS is a representation or guarantee of the chemical specifications for the substance.

Each user should read the SDS and consider the information in the context of how the selected substance will be handled and used in the workplace including its use in conjunction with other substances.

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