

MATERIAL SAFETY DATA SHEET
PRODUCT: POTASSIUM MONOPERSULPHATE
SOLD AS: Shock Right and Shock n Swim

Date of Issue: 19 July 2003

STATEMENT OF HAZARDOUS NATURE

Classified as hazardous according to criteria of WorkSafe Australia

COMPANY DETAILS

Company : International Quadratics Pty Ltd
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PRODUCT IDENTIFICATION

Product Name Shock Right & Shock N Swim
Correct Shipping Name Corrosive Solid, Acidic, Inorganic, NOS
Other Names Potassium Peroxymonosulfate
Potassium Monopersulphate
CHEMICAL FAMILY: Peroxygen salt
UN Number 3260
DG Class 8
Hazchem Code 2X
G.T.EPG 8A1
Pack. GRP III

PHYSICAL DESCRIPTION AND PROPERTIES

Appearance: White granular, free flowing solid, odourless.
Boiling Point: Decomposes
Vapour Pressure: Nil
Volatile Component Not volatile
Specific Gravity: 1.1-1.4
Flash Point Does not ignite
Flammability Limits Does not ignite
Autoignition Temp Not applicable
REL. Vapour Density Not volatile
PH: 1% solution = 2.3; 3 % solution = 2.0
Form Solid
Solubility: 25.6 WT% at 20°C
Use Pool shock treatment.

COMPOSITION

Chemical Name Registry Number	Proportion by Weight	CAS
Potassium Peroxymonosulfate	<50 %	10058-23-8
Potassium Sulphate	<50 %	7778-80-5
Potassium Bisulphate	<25 %	7646-93-7
Magnesium Carbonate	< 5 %	546-93-0

HEALTH HAZARD INFORMATION

Effects from Acute Exposure

- Ingestion:** Harmful if swallowed. Effects may include gastritis and possibly progressing to necrosis or haemorrhage with large overexposures.
- Eyes:** Eye contact may cause eye irritation with discomfort, tearing or blurring of vision.
- Skin:** Contact with skin may result in irritation with discomfort or rash. May cause allergic skin reactions at high concentrations in sensitive individuals.
- Inhalation:** Inhalation of mist, dust or dried residue may cause irritation of the upper respiratory passages with coughing and discomfort.

Effects from Chronic Exposure

None known.

Other Health Hazard Information

Individuals with preexisting diseases of the skin or gastrointestinal tract may have increased susceptibility to the toxicity of excessive exposures.

FIRST AID

- Ingestion:** If swallowed, immediately give 2 glasses of water and induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
- Eyes:** Irrigate with copious quantities of water for 15 minutes. Seek medical assistance if symptoms persist.
- Skin:** Wash affected areas with copious quantities of water.

Inhalation: If inhaled, immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Advice to doctor: Treat symptomatically.

FIRST AID FACILITIES

Eye wash and safety shower in area of use

PRECAUTIONS FOR USE

Toxicity Data Oral-rat LD50 : 2,000 mg/kg
Inhalation - rat 4 - hour LC50 : > 5mg/L
Skin absorption – rabbit LD50 : > 11,000mg/kg

EXPOSURE STANDARDS

Oxone ®Du Pont Monopersulphate Compound:
Worksafe TWA : None established
Worksafe STEL : None established
AEL * (DuPont): 1mg/m³ – 8hr TWA
TLV (ACGIH) : None established
PEL (OSHA) : Particulates not otherwise regulated.
15mg/m³ TWA – total dust
5mg/m³-8hr TWA – Respirable-dust.

ENGINEERING CONTROLS

Keep containers in a well ventilated area.

PERSONAL PROTECTION

Wearing of the following personal protective equipment is recommended.
Chemical goggles. PVC, neoprene or nitrile rubber gloves. Appropriate protective clothing. Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection. Respirators should comply with AS 1716 or an equivalent and should be used in accordance with AS 1715.

FLAMMABILITY

Not combustible. Non flammable.

ENVIRONMENT

Avoid contaminating waterways.

OTHER PRECAUTIONS

Avoid breathing dust. Avoid contact with eyes, skin or clothing.
Wash thoroughly after handling.

STORAGE AND HANDLING

Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Store in a cool place. Stack on pallets providing air space, closely stacked bags should not exceed a 4-ft. (1.2m) cube. Keep packages dry. No special requirements, product not regulated for transport.

RISK & SAFETY PHRASES

CONTAINS:	Potassium Peroxymonosulfate < 50%
R8:	Contact with combustible material may cause fire.
R34:	Causes Burns
S26:	In case of contact with eyes, rinse immediately with plenty of water. Contact a Doctor or poisons information centre.
S36/37/39:	Wear suitable protective clothing, gloves and eye/face protection.
S45:	In case of accident or if you feel unwell, seek medical advice immediately (Shoe label where possible).

SPILLS AND DISPOSAL

Contain all spills within a bund.
Contain – prevent contamination of drains and waterways.
Use absorbent (soil or sand, sawdust, inert material, vermiculite).
Sweep up.
Clean up using a shovel.
Collect and seal in properly labelled drums for disposal.
Wash area down with excess water.
If approved, flush to sewer to waste treatment plant.
Large quantities should be neutralised with soda ash.
Treatment, storage, transportation, and disposal of waste must be in accordance with applicable Federal, State and Local regulatory requirements.

FIRE AND/OR EXPLOSION HAZARD

Does not ignite. Non combustible.
Storage of large masses of Shockright can trap heat and lead to ignition of paper bags.
Grinding or intensive mixing may cause ignition of oxidisable material present.
Use an extinguishing media suitable for combustible materials in the area.
Wear self-contained breathing apparatus.
Avoid breathing decomposition products.

Instability: Stable.
Incompatibility: The mixture of Shockright with compounds containing halides or active halogens can cause release of the respective halogen if moisture is present. For example, mixture with sodium dichloroisocyanuride or with sodium chloride can cause release of chlorine gas, mixture with cyanides can cause release of hydrogen cyanide gas, and heavy metal salts such as those of cobalt, nickel, copper, or manganese cause the evolution of oxygen.
Polymerisation: Polymerisation will not occur.
Decomposition: Releases oxygen gas.

CONTACT INFORMATION

CONTACT:	GENERAL MANAGER:	(02) 9790 4200
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DISCLAIMER

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