

This revision issued: June, 2021 **Product Name: Shock Right Plus** 

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# Section 1 - Identification of The Material and Supplier

**International Quadratics Pty Ltd** 

Phone: 02 9774 5550 12 Gatwood Close Fax: 02 9774 5552 Padstow, NSW 2211 www.interquad.com.au

Chemical nature: Blend of inorganic persulfates.

**Trade Name:** Shock Right Plus **Product Use:** Chlorine free oxidiser.

**Creation Date:** March, 2010

This version issued: **June, 2021** and is valid for 5 years from this date. Poisons Information Centre: Phone 13 1126 from anywhere in Australia

#### Section 2 - Hazards Identification

#### **Statement of Hazardous Nature**

This product is classified as: Xn, Harmful. C, Corrosive. Hazardous according to the criteria of SWA. Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

**SUSMP Classification: S6** 

ADG Classification: Class 5.1: Oxidising substances. Sub Risk: Class 8: Corrosive Substances.

UN Number: 3085, OXIDIZING SOLID, CORROSIVE, N.O.S.









# **GHS Signal word: DANGER.**

Oxidising liquids or solids Category 2 or 3

Acute Toxicity Oral Category 4

Skin Corrosion /Irritation Category 1

Skin Sensitisation Category 1

Respiratory Sensitization Category 1

Specific Target Organ Toxicity - Single Exposure Category 3 Hazardous to aquatic environment Short term/Acute Category 2

## **HAZARD STATEMENT:**

H272: May intensify fire; oxidizer.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

H401: Toxic to aquatic life.

#### **PREVENTION**

P102: Keep out of reach of children.

P220: Keep or store away from combustible materials.

P221: Take any precaution to avoid mixing with combustible or flammable materials.

P260: Do not breathe dusts.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash contacted areas thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well ventilated area.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves, protective clothing and eye or face protection.

P285: In case of inadequate ventilation wear respiratory protection.

#### **RESPONSE**

P337: If eye irritation persists: seek medical attention.

P363: Wash contaminated clothing before reuse.

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P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.

P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313: If skin irritation or rash occurs: Get medical advice.

P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

P370+P378: Not combustible. Use extinguishing media suited to burning materials.

#### **STORAGE**

P405: Store locked up.

P402+P404: Store in a dry place. Store in a closed container.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

#### **DISPOSAL**

P501: If product can not be recycled, contact a specialist waste disposal company (see Section 13 of this SDS).

#### **Emergency Overview**

Physical Description & Colour: White free flowing crystalline solid.

Odour: No odour.

**Major Health Hazards:** causes burns, may cause sensitisation by inhalation and skin contact, harmful if swallowed, respiratory tract irritant.

#### Section 3 - Composition/Information on Ingredients **CAS No** TWA (mg/m<sup>3</sup>) STEL (mg/m<sup>3</sup>) Ingredients Conc,% Potassium peroxymonosulphate 70693-62-8 50 approx not set not set Sodium persulfate 7775-27-1 50 approx 0.01 Peak

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

## Section 4 - First Aid Measures

#### **General Information:**

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

**Inhalation:** If inhalation occurs, contact a Poisons Information Centre, or call a doctor at once. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. DO NOT allow victim to move about unnecessarily. Symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.

**Skin Contact:** Quickly and gently brush away excess solids. Seek immediate medical attention. Remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Flush contaminated area with lukewarm, gently flowing water for at least 20-30 minutes, by the clock. DO NOT INTERRUPT FLUSHING. If necessary, keep emergency vehicle waiting (show paramedics this SDS and take their advice). If irritation persists, repeat flushing. Seek medical attention.

**Eye Contact:** Quickly and gently brush particles from eyes. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 20-30 minutes, by the clock, while holding the eyelid(s) open. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. If necessary, keep emergency vehicle waiting (show paramedics this SDS and take their advice). Take care not to rinse contaminated water into the unaffected eye or onto face. If irritation persists, repeat flushing. Call a Poisons Information Centre or a doctor urgently. Take special care if exposed person is wearing contact lenses.

**Ingestion:** If swallowed, do NOT induce vomiting; rinse mouth thoroughly with water and contact a Poisons Information Centre. Urgent hospital treatment is likely to be needed. Give activated charcoal if instructed.

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# Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: There is a moderate risk of an explosion from this product if commercial quantities are involved in a fire. Firefighters should take care and appropriate precautions. The presence of this product in a fire is likely to intensify the fire due to its oxidising properties.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

Extinguishing Media: Coarse water spray is the preferred medium for large fires. Try to contain spills, minimise spillage entering drains or water courses.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade. There is a danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is liquid-tight chemical protective clothing and breathing apparatus.

Flash point: Does not burn. **Upper Flammability Limit:** Does not burn. **Lower Flammability Limit:** Does not burn.

**Autoignition temperature:** Not applicable - does not burn.

Flammability Class: Does not burn.

#### Section 6 - Accidental Release Measures

Accidental release: This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. For minor spills, clean up, rinsing to sewer and put empty container in garbage. Although no special protective clothing is normally necessary because of occasional minor contact with this product, it is good practice to wear impermeable gloves when handling chemical products. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services.

# Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Store in a cool, well ventilated area. Check containers periodically for corrosion and leaks. Containers should be kept closed in order to minimise contamination, especially from combustible or reducing materials. Make sure that the product does not come into contact with or substances listed under "Incompatibilities" in Section 10. If you keep more than 10000kg or L of Dangerous Goods of Packaging Group III, you may be required to license the premises or notify your Dangerous Goods authority. If you have any doubts, we suggest you contact your Dangerous Goods authority in order to clarify your obligations. Check packaging - there may be further storage instructions on the label.

## Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210.

TWA (mg/m<sup>3</sup>) STEL (mg/m<sup>3</sup>) **SWA Exposure Limits** Sodium persulfate 0.01 Peak limitation

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems. Ventilation: No special ventilation requirements are normally necessary for this product. However make sure that the work environment remains clean and that dusts are minimised.

Eye Protection: Your eyes must be completely protected from this product by splash resistant goggles with face shield. All surrounding skin areas must be covered. Emergency eye wash facilities must also be available in an area close to where this product is being used.

**Skin Protection:** Because of the dangerous nature of this product, make sure that all skin areas are completely covered by impermeable gloves, overalls, hair covering, apron and face shield. See below for suitable material types. Protective Material Types: We suggest that protective clothing be made from the following materials: rubber,

Respirator: As this product is classed as a respiratory sensitiser, special care should be taken with respiratory selection if you are sensitised to this product or any of its declared ingredients. If there is a significant chance that

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dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable Dust

Safety deluge showers should, if practical, be provided near to where this product is being used.

## Section 9 - Physical and Chemical Properties:

Physical Description & colour: White free flowing crystalline solid.

Odour: No odour. Boiling Point: Not applicable.

Freezing/Melting Point: Decomposes before melting.

Volatiles: Nil at 100°C.

**Vapour Pressure:** Negligible at normal ambient temperatures.

Vapour Density:No data.Specific Gravity:No data.Water Solubility:Soluble.pH:No data.

**Volatility:** Negligible at normal ambient temperatures.

Odour Threshold: No data.

Evaporation Rate: No data.

Coeff Oil/water Distribution: No data

**Autoignition temp:** Not applicable - does not burn.

# Section 10 - Stability and Reactivity

**Reactivity:** This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties. Check the Safety Directions on the product label for further details of incompatibilities.

**Conditions to Avoid:** This product should be kept in a cool place, preferably below 30°C. Containers should be kept dry. Under no circumstances should the container be sealed. Keep isolated from combustible materials.

Incompatibilities: reducing agents, zinc, tin, aluminium and their alloys, combustible materials.

**Fire Decomposition:** May form oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. potassium compounds, sodium compounds.

**Polymerisation:** This product will not undergo polymerisation reactions.

## Section 11 - Toxicological Information

**Local Effects:** 

**Target Organs:** There is no data to hand indicating any particular target organs.

# Classification of Hazardous Ingredients

Ingredient Risk Phrases

Potassium Persulfate Conc>=10%: C; R34

Sodium Persulfate Conc>=25%: Xn; R22; R42/43; R36/37/38

- Acute toxicity category 4
- Skin irritation category 2
- Eye irritation category 2A
- Respiratory sensitisation category 1
- Skin sensitisation category 1
- Specific target organ toxicity (single exposure) category 3

Potassium Persulfate: LD<sub>50</sub> Oral, Rat 1000-2000mg/kg LD<sub>50</sub> Dermal, Rabbit = >11,000mg/kg

LC<sub>50</sub> Inhalation, Rat = 5mg/L/4hr

Sodium Persulfate: LD<sub>50</sub> Oral, Rat 920mg/kg LD<sub>50</sub> Dermal, Rabbit = >10,000mg/kg

 $LC_{50}$  Inhalation, Rat = 5.1mg/L/4hr

## **Potential Health Effects**

Persons sensitised to Sodium persulfate should avoid contact with this product.

Inhalation:

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**Short Term Exposure:** Classified as a potential sensitiser by inhalation. Exposure to a sensitiser, once sensitisation has occurred, may manifest itself as an asthmatic condition, and in some individuals this reaction can be extremely severe. In addition product is corrosive to the respiratory tract. Symptoms will include extreme pain in nose and throat and copious secretion of mucous in the nose and throat. Other symptoms such as pulmonary oedema may also become evident, and may be life threatening if exposure is other than brief.

Long Term Exposure: No data for health effects associated with long term inhalation.

#### **Skin Contact:**

**Short Term Exposure:** Classified as a potential sensitiser by skin contact. Exposure to a skin sensitiser, once sensitisation has occurred, may manifest itself as skin rash or inflammation, and in some individuals this reaction can be severe. In addition product is corrosive to the skin. Capable of causing moderate to severe burns with ulceration. Can penetrate to deeper layers of skin, resulting in third degree burns. Corrosion will continue until product is removed or neutralised. Severity depends on concentration and duration of exposure. Burns may not be immediately painful; the onset of pain may be minutes to hours.

Long Term Exposure: No data for health effects associated with long term skin exposure.

## Eye Contact:

**Short Term Exposure:** This product is corrosive to eyes. It will cause severe pain, and corrosion of the eye and surrounding facial tissues. Unless exposure is quickly treated, permanent blindness and facial scarring is likely. **Long Term Exposure:** No data for health effects associated with long term eye exposure.

# Ingestion:

**Short Term Exposure:** Significant oral exposure is considered to be unlikely. Available data shows that this product is harmful, but symptoms are not available. However, this product is corrosive to the gastrointestinal tract. Capable of causing moderate to severe burns with ulceration. Can penetrate to deeper layers of skin, resulting in third degree burns. Corrosion will continue until product is removed or neutralised. Severity depends on concentration and duration of exposure.

Long Term Exposure: No data for health effects associated with long term ingestion.

#### Carcinogen Status:

**SWA:** No significant ingredient is classified as carcinogenic by SWA. **NTP:** No significant ingredient is classified as carcinogenic by NTP. **IARC:** No significant ingredient is classified as carcinogenic by IARC.

# Section 12 - Ecological Information

This product is toxic to aquatic organisms. This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

#### **Potassium Persulfate:**

Fish:  $LC_{50}$  fish: 32-56mg/L Algae:  $EC_{50} > 1$ mg/L

Daphnia: EC<sub>50</sub> 1.8mg/L Sodium Persulfate:

Fish: LC<sub>50</sub> fish: 163mg/L Bacteria: EC<sub>50</sub> 116mg/L

Daphnia: EC<sub>50</sub> 133mg/L

# **Section 13 - Disposal Considerations**

**Disposal:** Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

# **Section 14 - Transport Information**

Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

**UN Number:** 3085, OXIDIZING SOLID, CORROSIVE, N.O.S.

Hazchem Code: 1W

Special Provisions: 223, 274

Limited quantities: ADG 7 specifies a Limited Quantity value of 5 kg for this class of product.

Dangerous Goods Class: Class 5.1: Oxidising Agents.

Sub Risk: Class 8, Corrosive Substances.

Packing Group: III

Packing Instruction: P002, IBC08

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Class 5.1 Oxidising Agents shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 2.1 (Flammable Gases), 2.3 (Toxic Gases), 3 (Flammable Liquids), 4.1 (Flammable Solids), 4.2 (Spontaneously Combustible Substances), 4.3 (Dangerous When Wet Substances), 5.2 (Organic Peroxides), 6 (Toxic Substances, where the Toxic Substance is a fire risk substance), 7 (Radioactive Substances), 8 (Corrosive Substances), 9 (Miscellaneous Dangerous Goods, where the substance is a fire risk substance), Fire risk substances other than Dangerous Goods. They may however be loaded in the same vehicle or packed in the same freight container with Classes 2.2 (Non-Flammable, Non-Toxic Gases), 6 (Toxic Substances except where the substances are fire risk substances), 9 (Miscellaneous Dangerous Goods except where the goods are fire risk substances) Foodstuffs and foodstuff empties.

# Section 15 - Regulatory Information

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations. The following ingredients: Sodium persulfate, Potassium peroxymonosulphate are mentioned in the SUSMP.

# Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

**Acronyms:** 

**ADG Code** Australian Code for the Transport of Dangerous Goods by Road and Rail (7<sup>th</sup> edition)

AICS

Australian Inventory of Chemical Substances

SWA

Safe Work Australia, formerly ASCC and NOHSC

CAS number

Chemical Abstracts Service Registry Number

**Hazchem Code** Emergency action code of numbers and letters that provide information to emergency

services especially firefighters

IARC International Agency for Research on Cancer

NOS Not otherwise specified

NTP National Toxicology Program (USA)

R-Phrase Risk Phrase

SUSMP Standard for the Uniform Scheduling of Medicines & Poisons

**UN Number** United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS 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 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.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (Feb 2016)

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