



MATERIAL SAFETY DATA SHEET

Product Name : RAMSET POWDER ACTUATED TOOL CHARGE LOADS	Ramset NZ
Other Names : None	A Division of ITW NZ Ltd
Part No. : PLB*****, PLC*****, PLD*****, PLS*****	PO Box 40-031
MSDS No. : NZ1000	Glenfield, Auckland
Date & Issue : NOV 03 / ISSUE A	www.ramset.co.nz

1: RECOMMENDED USE

.22, .25, .27 calibre construction tool propellant containers for explosive actuated tools (bolt guns). These charges should be used only by certified operators for use in approved tools and as otherwise provided by the appropriate New Zealand Code of Practice.

2: HAZARDS IDENTIFICATION

UN No	: 0323	Hazchem Code	: Not applicable
Hazard Class	:	Poisons Schedule	: Not applicable
Subsidiary Risk	: Not applicable	CAS No	: Not applicable
SPEC EPG	: Not applicable	G T EPG	: Not applicable
NIOSH	: Not applicable	Packing Group	: Not applicable
D G Class	: 1.4S	IMDG	: 1231

3: PHYSICAL DESCRIPTION & PROPERTIES

Appearance:
Metal small arms type cartridge for explosive powering of construction tools. Colour coded to indicate strength of charge.

Flammability Limit	: Not applicable	Solubility in Water	: Not applicable
Specific Gravity	: Not applicable	Boiling/ Melting Point	: Not applicable
Form @ 20°C	: Not applicable	Flashpoint	: Not applicable
Vapor Pressure	: Not applicable	Net Explosive Content	: Carton Net Weight

4: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	(CAS No)	Content Proportion
Shell, copper	7440-50-8	Medium
Shell, zinc	7440-66-6	Medium
Propellant, Nitrocellulose	9004-70-0	Low
Propellant, Nitroglycerin	55-63-0	Low
Propellant, Dibutyl phthalate	84-74-2	Low
Priming Mix/Primer, copper	7440-50-8	Low
Priming Mix/Primer, zinc	7440-66-6	Low
Priming Mix/Primer, lead styphnate	15245-44-0	Low
Priming Mix/Primer, barium nitrate	10022-31-8	Very Low
Paper wad		Not specified

Content Proportion: High > 60% Medium 10-60% Low 1-10% Very Low <1%

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5: HEALTH HAZARD INFORMATION
****TAKE A COPY OF THIS MSDS TO THE DOCTOR****

HEALTH EFFECTS: ACUTE:

Eyes:
Irritation may occur with inflammation of the conjunctiva. Any effect would not result in permanent impairment of vision. It is judged that this effect would not occur because of the physical nature of the product, and low percentage of propellant in the product and its use.

Skin:
Dermal exposure to the propellant may cause irritation which would subside rapidly upon removal of material without permanent damage. Additional effects would be similar to those described for acute inhalation exposure.

Inhaled:
Inhalation of the propellant is irritating to the nose, mouth, throat and lungs. Dilation of blood vessels with drop in blood pressure and headache, cyanosis and mental confusion may result from the nitroglucerin. The headache may be severe and can remain for a few hours to several days. It typically starts at the forehead preceded by a sensation of warmth and fullness in the head and may extend to the back of the neck. Nausea, vomiting and abdominal pain may also occur.

Swallowed:
Irritation to the gastrointestinal tract. Additional effects would be similar to those described for acute inhalation exposure.

HEALTH EFFECTS: CHRONIC: Refer to ACUTE

This product is composed of a finished cartridge, and the propellant is completely sealed. It is judged that the physical nature of the product, the low percentage of propellant in the product, and its use would preclude skin absorption of a sufficient amount of propellant and the development of these acute and/or chronic symptoms.

Principal routes of exposure are usually by inhalation of dust from contents and skin/eye contact. Inhalation of dust may result in headache, nausea, mucous membrane irritation, cyanosis, gastrointestinal upset and central nervous system effects. Contents may cause teratogenic effects and reproductive health effects in men and women.

FIRST AID **Take a copy of this MSDS to the Doctor**

Eyes:
If this product comes into contact with the eyes, hold the eyes open and wash continuously for at least 15 minutes with fresh. Running water immediately. Ensure irrigation under eyelids by occasionally lifting the upper and lower lids. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personal

Skin:
If product comes in contact with the skin, remove all contaminated clothing, including footwear (after rinsing with water). Wash affected areas thoroughly with water (and soap if available). Seek medical attention in event of irritation.

Inhaled:
If fumes or combustion products are inhaled, remove patient to fresh air. Lay them down. Keep warm and rested. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation. Transport to hospital or doctor.

Swallowed:
If conscious, give a glass of water or milk to drink. Induce vomiting with IPECAC Syrup or fingers down the back of the throat, only if conscious. Transport to hospital or doctor without delay.

Advice to Doctor: Treat symptomatically.

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Toxicity data:

Inhalation LC50:	No data
Dermal LC50	No data
Oral LD50:	No data
Irritation:	Refer to HEALTH EFFECTS

Acute target organ toxicity:

Nitroglycerin will produce dilation of blood vessels and drop in blood pressure which may affect the heart. It has also been shown to cause methemoglobinemia (cyanoso). It is judged that the product would preclude the occurrence of these symptoms from exposure to this product.

Chronic target organ toxicity

There are no known or reported effects form repeated exposure to this product

Reproductive and developmental toxicity:

There are no known or reported effects on reproductive function or foetal developments.

Carcinogenicity:

This product is not known or reported to be mutagenic.

Aquatic toxicity:

No data for product. Individual components are as follows: Nitrocellulose: Fish are unaffected by nitrocellulose at concentrations of 1000 mg/l.

6: PRECAUTIONS FOR USE

EXPOSURE LIMITS: None

VENTILATION: Use in a well ventilated area

PERSONAL PROTECTION:

Eyes:
Safety glasses with side shields. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

Hands & Feet:
Wear physical protective gloves, e.g. leather. Wear protective footwear.

Respiratory
If inhalation risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas.

Other:
Overalls. Hard hat. Ear protection. Leather apron. The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required. For further information, consult site specific ADCHEM data (if available) or your Occupational Health and Safety advisor.

ENVIRONMENT:

Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and non-hazardous wastes.

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7: SAFE HANDLING & STORAGE**STORAGE & TRANSPORT:**

Store in original containers. Keep containers securely sealed as supplied. No smoking, naked lights, heat or ignition sources. Store in a cool, dry, well ventilated area. Store under cover and away from direct sunlight. Store below safe storage (control) temperature. Always store below 35 deg C. Store away from flammable or combustible materials, debris and waste. Contact may cause fire or violent reaction. Store away from foodstuff containers. Do not stack on wooden floors or wooden pallets. Protect containers against physical damage, friction or shock. Observe manufacturer's storage and handling recommendations. Keep locked up. Special regulatory requirements may apply. Restrictions may apply on quantities and to other materials permitted in the same location. Class 1 – Explosives shall not normally be carried on the same vehicle with dangerous goods of other classes. Segregation shall in any case be in accordance with the applicable Commonwealth, State or Territory explosives legislation.

PACKAGING & LABELLING:

Locked metal containers. Charges shall be clearly colour marked to indicate their relative strength. Check that containers are clearly labelled.

Packaging group 1. Label: Explosive 1.4S

SPILLS & DISPOSALS:Minor:

Clean up all spills immediately. Avoid contact with skin and eyes by wearing impervious and safety glasses. Remove all ignition sources. Use dry clean up procedures and avoid generating dust. Place in clean drum then flush area with water.

Major:

Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent by any means available, spillage from entering drains or water courses. Consider evacuation. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so, use dry clean up products procedures and avoid generating dust. Spills of contents should be wetted. Use only spark free shovels and explosion proof equipment. Collect recoverable product into labelled containers for recycling. Collect residues and seal in labelled drums for disposal. After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using. If contamination of drains or waterways occurs as a result of the above actions advise emergency services.

Disposals:

Recycle wherever possible. Consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Incinerate residue at an approved site. Recycle containers wherever possible otherwise dispose of in an authorised landfill.

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8: FLAMMABILITY

Fire/Explosion hazard : Explosive. Dangerous hazard when exposed to heat. Decomposes on heating and produces toxic fumes of carbon monoxide (CO) and nitrogen oxides (NOx)

Extinguishing Media : Flooding quantities of water only. **Upper Explosion Limit** : Not available
Dust Explosion Limit : Not available **Lower Explosion Limit** : Not available
May Decompose Explosively : Yes

Other Safe Handling:
Avoid all personal contact, including inhalation. Wear protective clothing when risk of overexposure occurs. Use in a well ventilated area. Avoid smoking, naked lights, heat or ignition sources. Avoid contact with incompatible materials. When handling, do not eat, drink or smoke. Must not be struck by metal implements. Avoid shock and friction. Use spark-free tools when handling. Keep containers securely sealed when not in use. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storing and handling recommendations. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. In the case of fire, evacuate all persons including emergency response personnel from the area for 800 metres in all directions if fire reaches cargo. Avoid placing cartridges in a high radio frequency energy field (radar stations). Cartridge may detonate if case is punctured or severely damaged. Avoid acid or alkali atmospheres.

HAZARDOUS DECOMPOSITION PRODUCTS:
Nitrogen oxides, carbon monoxide, dioxide, lead oxides, lead dust/fumes

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