

ISSUED: APRIL 2009

MATERIAL SAFETY DATA SHEET

STATEMENT OF HAZARDOUS NATURE

Classified as hazardous according to criteria of Worksafe Australia, Class I, Explosive

COMPANY DETAILS

Maxam Australia Pty Limited test
141 Boundary Road
OXLEY QLD 4075

Telephone No: (07) 3717 1818

DANGER - If misused or disposed of improperly material may explode and cause death or injury. DO NOT HANDLE WHEN IN DOUBT.

IN EMERGENCY, DIAL EMERGENCY RESPONSE SERVICE ON 1800-833111 and 000 (Police/Fire)

IDENTIFICATION:

Product Name:	RIOTECH SHOCK TUBE DETONATORS MS, LP, TLD AND LIL
Correct Shipping Name:	DETONATOR ASSEMBLIES, NON ELECTRIC FOR BLASTING
Manufacturer's Produce Code:	Various
UN Number:	0361
Dangerous Goods Class and Subsidiary Risk:	1.4B
Hazchem Code:	1Z
Poisons Schedule Number:	N/A
Use:	For general blasting purposes, mainly to initiate other explosives or for special applications.

Physical Description/Properties

Appearance:	A precision heavy duty initiator composed of a flexible shock tube, a millisecond delay detonator (aluminium tube) and a detonating cord connector.
Boiling Point/Melting Point:	N/A
Vapour Pressure	N/A
Specific Gravity	N/A
Flashpoint	N/A
Flammability Limits	N/A
Solubility in Water:	N/A
Other Properties	N/A

Detonation may occur from impact or excessive heating – particularly under confinement. Avoid all contact with other chemicals.

Ingredients:

Chemical Name	CAS No	Proportion, %	Exposure Limits
Lead Azide	13424-46-9	Low	Lead (elemental Pb) TLV (TWA) ACGIH – 0.05 mg/m ³ TLV(TWA) WORKSAFE - 0.15 mg/m ³
Pentaerythritol tetra nitrate	78-11-5	High	None listed

(Note: Content – High > 60%, Med 10 – 60%, Low 1 – 9 %, V Low < 1%)

HEALTH HAZARD INFORMATION

Health Effects

Under normal conditions, adverse health effects would not be expected. Note: DANGER – If misused or disposed of improperly material may explode and cause death or injury. DO NOT HANDLE WHEN IN DOUBT.

EYE -	Not a likely risk of exposure
SKIN -	Not a likely risk of exposure
INGESTION -	Not a likely risk of exposure
INHALATION -	Not a likely risk of exposure
CARCINOGENICITY -	Not a likely risk of exposure

FIRST AID	
EYES	Immediately hold eyes open and wash continuously with water for at least 15 minutes.
SKIN	Immediately remove all contaminated clothing, including footwear. Wash effected areas thoroughly with water, and soap, if available.
BURNS	Immerse affected area in cold water for 10 to 15 minutes. Bandage lightly with sterile dressing. Treat for shock if required.

IN ALL CASES – OBTAIN IMMEDIATE MEDICAL CARE. ENSURE THAT ATTENDING MEDICAL PERSONNEL ARE AWARE OF THE IDENTITY AND NATURE OF THE PRODUCT(S) INVOLVED AND TAKE PRECAUTIONS TO PROTECT THEMSELVES.

PRECAUTIONS FOR USE

Exposure Standards:

Recommended Occupational Exposure Limits/Hazard Ingredient

None Assigned for this product.

Engineering Controls: Product needs to be used by experienced and skilled personnel under the supervision of a qualified Shotfirer.

Personal Protection: N/A

Flammability: See Physical Description/Properties

SAFE HANDLING INFORMATION

Handling - Explosives should not be abandoned at any location for any reason. Do not handle during electrical storms.

Storage - Store in approved magazines. Flames, smoking and unauthorised personnel are prohibited where this product is used or stored. Protect against lightning.

Transport - Transport in approved vehicles.

Warning - Use of this product by persons lacking adequate training, experience and supervision may result in injury or death. Obey all Commonwealth, State and Local Laws and Regulations.

Distance - Always stay away from area of explosion or disposal sites, behind suitable barriers.

Reactivity Data

Conditions contributing to instability - heat (confinement), stacking (burning)

Incompatibility with acids, alkalis.

Explodes at 160 degrees Celsius or on impact, produces shrapnel. Hazardous gases produced may include lead fumes, silica, carbon monoxide and nitrogen oxides.

Polymerisation - Polymerisation will not occur.

Fire and Explosion Hazard Information

Will detonate when exposed to heat or flame. No extinguishing media.

Do not fight fire

Isolate area

Evacuate personnel to safe area

Guard against intruders

Static Electricity (radio frequency)

Spills and Disposal Procedures

Isolate area. Eliminate all sources of ignition Disposal of unexploded or deteriorated explosives can be hazardous. Expert assistance is positively recommended in destroying explosives. Accidents can be prevented by thorough planning and handling in accordance with approved methods. Consult your supervisor, or the nearest Maxam office for assistance. In all cases, follow site emergency response procedures.

CONTACT POINT:

This product has a classification of 1.4B (detonator) and **may not** be stored with any high explosives classification 1.1D. All detonators must be stored in an approved detonator storage magazine conforming with local, state and commonwealth regulations.

Normal operating conditions are assumed unless otherwise stated. If given information is not clear or does not apply to your situation, **STOP**, and seek appropriate help from your supervisor or

Maxam Australia Pty Limited

Phone:	Brisbane	(07) 3717 1818
	Townsville	(07) 4729 0750
	Victoria	0438 594 921
	Goulburn	(02) 4822 9177
	Newcastle	(02) 4932 7400
	Highbury (SA)	0437 224 104
	Gladstone (SA)	(08) 8662 2511
	Perth	(08) 9524 2701

EMERGENCY RESPONSE SERVICE: 1800 833 111

Disposal sites must be clear of people at the time of disposal.

Notice: The data and recommendations herein are based upon data which is considered to be accurate. However, Maxam make no guarantee or warranty, either expressed or implied, to the accuracy or completeness of this data and recommendations.