

1. IDENTIFICATION

1.1 SUPPLIER

Company: RockTek Trading For BD Explosives Pty Ltd
ABN: 73 130 182 008
Street Address: 1334 Stakehill Road (Baldivis Explosives Reserve)
BALDIVIS, WESTERN AUSTRALIA , 6171
Telephone: +61 8 9523 1374
Facsimile: +61 8 9523 1449

EMERGENCY TELEPHONE NUMBER: Mobile 08 9427 0499 (24 hours)

1.2 PRODUCT DESIGNATION

PRODUCT NAME: Impact Fuse Assembly
UN Shipping Name: Cases, Cartridges, Empty, with Primer
UN Number: 0055
Dangerous Goods Class: 1.4S
Subsidiary Risk: None
Poisons Schedule Number: None



1.3 USE Small arms ammunition primer

1.4 PERSONAL PROTECTIVE EQUIPMENT REQUIRED

Respiratory Protection: Not normally required, however if significant dusting occurs wear a an approved dust mask.
Ventilation: Local exhaust ventilation is recommended if significant dusting occurs. Otherwise use a general exhaust ventilation.
Skin Protective Equipment: Wear Safety glasses and impermeable gloves.
Protective Clothing Type: Impermeable – gloves, boots, apron, protective suit.

1.5 PHYSICAL PROPERTIES

Appearance:	Flanged capsule
Boiling Point (°C):	Not Applicable
Decomposition Temperature:	82 ° C (180 ° F)
Vapor Pressure @ 25° C:	Not Applicable
pH @25° C:	Not Applicable
Evaporation Rate	Not Applicable
Freezing Point (°C):	Not Applicable
Specific Gravity	Not Applicable
Flash Point:	Not Applicable
Bulk Density:	Not Applicable
Volatiles, Percent by Volume:	Not Applicable
Lower Explosive Limit.	Not Applicable
Upper Explosive Limit:	Not Applicable
Solubility in Water (Propellant):	Not Applicable

1.6 CHEMICAL COMPONENTS

Chemical Name: **Iron**
 Chemical Number: 7439-89-6
 Percentage Range: 50-55%
 Hazard per 29 CFR 1910.1200: Non hazardous as long as used in such a manner as not to produce dust or fume.

Exposure Standards:

	OSHA (PEL)		ACGIH(TVL)	
	ppm	mg/cubic-meter	ppm	mg/cubic-meter
TWA:				
Total Particulate:		10		none
FUME:		None		None
CEILING:		None		None
STEL:		None		None

Chemical Name: **Brass Alloy 260**
 Chemical Number: Not assigned - mixture
 Percentage Range: 32-36%
 Hazard per 29 CFR 1910.1200: Non hazardous as long as used in such a manner as not to produce dust or fume.

Exposure Standards

See reference number 25, Section XV; Olin MSDS for Alloy 260.

Chemical Name: **Lead styphnate**
 Chemical Number: 15245-44-0
 Percentage Range: 2-3%
 Hazard per 29 CFR 1910.1200: Yes
 Exposure Standards: as Lead

	OSHA (PEL)		ACGIH(TVL)	
	ppm	mg/cubic-meter	ppm	mg/cubic-meter
TWA:		0.05		0.15
CEILING:		None		None
STEL:		None		None

Chemical Name: **Paper**
 Chemical Number: Not assigned/Mixture
 Percentage Range: 2-3%
 Hazard per 29 CFR 1910.1200: No

Exposure Standards

See reference number 25, Section XV; Olin MSDS for Alloy 260.

**IMPACT FUSE ASSEMBLY
MATERIAL SAFETY DATA SHEET**

**1.4S UN0055
REVISION DATE: 09-03-2015**

Chemical Name: Copper
Chemical Number: 7440-50-8
Percentage Range: 1-3%
Hazard per 29 CFR 1910.1200 Yes

Exposure Standards Non established

	OSHA (PEL)		ACGIH(TVL)	
	ppm	mg/cubic-meter	ppm	mg/cubic-meter
TWA:				
DUST:		1		1
FUME:		0.1		0.2
CEILING:		None		None
STEL:		None		None

Chemical Name: Barium Nitrate
Chemical Number: 10022-31-8
Percentage Range: 1.5-2.5%
Hazard per 29 CFR 1910.1200 Yes.

Exposure Standards as Ba

	OSHA (PEL)		ACGIH(TVL)	
	ppm	mg/cubic-meter	ppm	mg/cubic-meter
TWA:		0.5		0.5
CEILING:		None		None
STEL:		None		None

Chemical Name: Antimony sulfide
Chemical Number: 1345-04-6
Percentage Range: 0.8-1.1%
Hazard per 29 CFR 1910.1200 Yes

Exposure Standards as Sb

	OSHA (PEL)		ACGIH(TVL)	
	ppm	mg/cubic-meter	ppm	mg/cubic-meter
TWA:		0.5		0.5
CEILING:		None		None
STEL:		None		None

1.7 FIRE AND EXPLOSION HAZARD

Flammable:	No
Combustible:	No
Pyrophoric:	No
Explosive:	Yes
Flash Point:	Not Applicable
Autoignition Temperature:	No Data

REACTIVITY INFORMATION

Conditions under which this product may be unstable:

Temperatures above:	82° C (180° F)
Mechanical Shock or Impact:	Yes
Electrical (Static) Discharge:	Yes
Other:	Friction
Hazardous Polymerization:	Will not occur
Incompatible Materials:	Strong oxidizers, acids or caustics
Hazardous Decomposition Products:	Nitrogen oxides, carbon monoxide, metal fumes.

SUMMARY OF REACTIVITY

Oxidizer:	No
Pyrophoric:	No
Organic peroxide:	No
Water reactive:	No
Other:	Explosive

2. HEALTH HAZARD INFORMATION

2.1 HEALTH EFFECTS

ACUTE

Swallowed	Ingestion of the primer may cause irritation to the gastrointestinal tract. Ingestion of the primer may also cause gastrointestinal discomfort with any or all of the following symptoms: nausea, vomiting, lethargy and diarrhoea.
Eye	If the primer comes into contact with the eyes, it would be expected to cause irritation consisting of reversible redness, swelling and mucous discharge to the conjunctiva. No corneal involvement or visual impairment would be expected.
Skin	Dermal exposure to the primer may cause irritation consisting of transient redness. This irritant effect would not result in permanent damage.
Inhaled	The product is a solid pellet. It is judged that the physical nature would preclude inhalation.

2.2 OTHER HEALTH EFFECTS

CHRONIC TARGET ORGAN TOXICITY

Lead can cause damage to the blood, central and peripheral nervous systems, and kidney. Lead inhibits the production of haemoglobin, the material in the blood, which carries oxygen. Anemia may result. Lead also causes damage to peripheral nerves resulting in a decrease in motor nerve and muscle function. Soluble barium compounds can affect muscle contractility adversely affecting.

FIRST AID

Swallowed	Immediately drink water to dilute. Consult a physician if symptoms develop.
Eyes	Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If eye irritation develops, call a physician.
Skin	Immediately flush with water for 15 minutes. Wash the contaminated skin with soap and water. If irritation develops, call a physician. If clothing comes in contact with the product, the clothing should be laundered before re-use.
Inhaled	Not a likely route of exposure.

3. SAFE HANDLING AND STORAGE

2.1 STORAGE REQUIREMENTS

- Store in cool, dry well-ventilated place away from all sources of ignition.
- Do not store at temperatures above 60° C (140° F)
- Indefinite shelf life at 50-90° F and 35% relative humidity.
- Do not subject to mechanical shock.

2.2 STORAGE INCOMPATIBILITY

Class A & B explosives, strong oxidisers, acids or caustics.

2.3 FIRE/EXPLOSION HAZARD

Extinguishing Media:	Water spray only. Apply by mechanical methods. Fight all fires from an explosion resistant location. Evacuate all non-essential personnel.
Fire fighting techniques and comments:	Use water to cool containers exposed to fire. Use impermeable protective clothing – protective suit, boots and gloves.

2.4 SPILLS AND LEAKAGE PROCEDURES

Spill Mitigation Procedures:	This product may represent an explosion hazard. Remove all sources of ignition.
Air Release:	Not Applicable
Water Release:	Not Applicable
Land Spill:	Not Applicable
Other:	A spill of this material is not likely to require an emergency response team unless in large quantities. Activate clean up by using non-sparking or plastic tools. do not subject to mechanical shock. For a large spill you are requested to contact OCEAN at 1 800 6546 911 for advice and or assistance.
Spill Residues:	Dispose of per guidelines under Waste disposal.
Personal Protection for Emergency Spill:	No extra protection required beyond impermeable protective clothing – protective suit, boots and gloves.

2.5 WASTE DISPOSAL

If this product becomes a waste, it meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number D003.

If this material becomes a waste, it should be sent to metal reclamation.

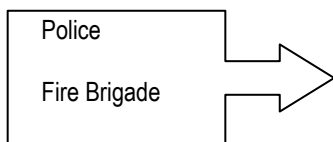
Care must be taken to prevent environmental contamination from the use of this material. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and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

4. CONTACT POINTS

Note: The contact numbers listed below are for Australia only. For countries other than Australia, the appropriate numbers for Poisons Information Centre and Emergency Contacts should be dialled instead.

AUSTRALIAN POISONS INFORMATION CENTRE (24 hour service) 13 11 26

EMERGENCY CONTACT



Dial "000" or 1100 Exchange

Notify Police and Fire Brigade as to location, material, quantity, UN Number and Company contact

COMPANY CONTACT

RockTek Trading for BD Explosives Pty Ltd, Lot 1334 Stakehill Road, Baldivis, Western Australia, Telephone: +61 8 9523 1374