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	Document Type: <h1 style="text-align: center;">Safety Data Sheet</h1> <p style="text-align: center;">Conforms to ISO 11014:2009</p>
	Title: <h2 style="text-align: center;">SHOCK TUBE™</h2>

1. Identification of the product and Company Identification

Product Name	SHOCK TUBE™	Manufactured/ supplied by
Shipping name	Articles, explosives, n.o.s.	BME
Synonyms	-	A division of Omnia Group (Pty) Ltd
Chemical Formula	Not applicable	P.O. Box 70040
Emergency telephone number	(+27) 11 706 3398	Bryanston
		South Africa 2021
		Tel: 27 11 7098791
		Fax: 27 11 4633023

2. Composition/information on ingredients

Recommended Use	: Used for Shock Tube Initiating Systems for explosives charges, particularly stope and development charges underground.	
Appearance	: Double extruded poly ethylene tubing (normally green or orange) with a dusting of RDX and Aluminium adhering to the internal surface. It has no detectable odour.	
Chemical Entity	CAS No	PROPORTION
Plastic tubing (Poly ethylene)	7429-90-5	Very High
Aluminium Powder		Very Low (<0.1%)
Cyclo-trimethylene trinitramine (RDX)		Very Low (0.2-0.4%)
Proportion (% weight per weight): Very High >60%, High 30-60%, Medium 10-29%, Low 1-9%, Very Low <1%		

3. Hazards identification

Based on available information, this material is not classified as hazardous according to health criteria of international authorities. No exposure to hazardous chemicals is expected to occur during the intended product use. Misuse of the product may result in exposure to hazardous chemicals. It is our belief that, under conditions of normal occupational exposure, this product should pose no hazard to the user.

Classified as Dangerous Goods under the UN Code for the Transport of Explosives by Road and Rail.

Class	1.4S or Unclassified
Poisons Schedule	None allocated

4. First aid measures

This is a packaged product that will not result in exposure to the contents under normal conditions of use.

Ingestion	: Not a likely route of exposure.
Eye contact	: Not a likely route of exposure.
Skin	: Not a likely route of exposure. Dust particles may cause skin irritation in sensitive workers.
Inhalation	: Not a likely route of exposure.
Notes to physician	: None.

5. Fire-fighting measures

Specific hazards	:	May burn vigorously with localised detonations and projection of fragments, with effects usually confined to the immediate vicinity of packages. Toxic smoke from combustion of plastic material may be emitted. If product functions, high heat and pressure are released from the end of the tube if not covered or enclosed
Fire fighting	:	For shock tube only, consider initial isolation of at least 15 metres in all directions. Fight fire with normal precautions and methods used for plastic fires. Do not fight the fire if it is approaching an area containing explosives. IF DETONATORS OR OTHER EXPLOSIVES ARE PRESENT – DO NOT FIGHT THE FIRE!

6. Accidental release measures

Collect shock tube and sent to authorised burning grounds. If the ends of the tube have been opened such that powder may have been released from the tube, carefully clean "loose" powder spills using a damp sponge or rag and place in a bin containing a desensitising liquid such as industrial paraffin. To be destructed on an authorised burning grounds.

7. Handling and storage

Handling	:	Avoid rough handling as it could lead to powder loss.
Storage	:	Store in clean, cool, dry, well ventilated location.

8. Exposure controls/personal protection

National occupational exposure limits	:	8-hr TWA OEL (mg/m ³) RDX – 10.00 mg/m ³ Aluminium - 10.00 mg/m ³
Engineering Measures	:	Natural ventilation should be adequate under normal use conditions. When testing, ensure adequate ventilation.
Personal protective equipment	:	Not required for normal use. Always wash hands before smoking, eating, drinking or using the toilet.

9. Physical and chemical properties

Form/Colour/Odour	:	Double extruded poly ethylene tubing (normally green or orange) with a dusting of RDX and Aluminium adhering to the internal surface. It has no detectable odour.
Solubility	:	Insoluble in water.

10. Stability and reactivity

Stability	:	Stable under normal handling conditions.
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11. Toxicological information

No adverse health effects if the product is handled in accordance with the Safety Data Sheet and the product label

Ingestion	:	N/A
Eye contact	:	N/A
Skin contact	:	N/A
Inhalation	:	N/A

12. Ecological information

Avoid contaminating waterways

13. Disposal considerations

For small quantities : Follow destruction methods duly authorised by relevant authorities and internal management procedures.
Large quantities : Should be returned to BME or be disposed of in conjunction with relevant authorities.

14. Transport information

Road/Rail transport:

UN No : UN 0349
Class/Division : 1.4S
Packing group : II
Proper Shipping Name : Articles, Explosive, N.O.S.

Marine Transport:

UN No : UN 0349
Class/Division : 1.4S
Packing group : II
Proper Shipping Name : Articles, Explosive, N.O.S.

Air Transport:

Class/Division : 1.4S
Packing group : II
Proper Shipping Name : Articles, Explosive, N.O.S.

15. Regulatory Information

Based on information available, this material is not hazardous, based on adherence to safe working procedures

16. Other information

History

Date of printing : 18-03-2020
Date of issue : 18-03-2020
Date of previous issue : 29-08-2018
Recommended by : C Oussoren – LAB Supervisor
Authorised by : DH Voogt – General Manager – Production and Logistics

Remarks:

This SDS summarizes, at the date of issue, our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle the product in the workplace. As **BME** cannot control the use and handling of the product, each user must review the SDS in the context of how the user intends to handle and use the product in the workplace.
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