ISSUED DATE: 30-08-2018

REVISION: 6

bme Title:

Safety Data Sheet

VIPER CORD[™]

1. Identification of the product and Company Identification

Product Name	VIPER CORD [™]	Manufactured/ supplied by
Shipping name	Detonating Cord	Manufactured for BME, By Shandong
Synonyms	-	Yinguang Technology Co., LTD.
Chemical Formula	Not applicable	
Emergency telephone number	(+27) 11 706 3398	BME A division of Omnia Group (Pty) Ltd P.O. Box 70040 Bryanston South Africa 2021 Tel: 27 11 7098791 Fax:27 11 4633023

2. Composition/information on ingredients			
Recommended Use:VIPER COAppearance:Smooth aapplication	DRD [™] is used to initiate explosives and nd clean, continuous length of flexible de 1.	shock-tube in various mining applications. etonating cord supplied on reels for ease of	
VIPER CORD [™] consists of a cotton core, covered by a continuous core of PETN explosive bound in nylon fibres with an over extruded colour coded high strength synthetic textile.			
Chemical Entity	CAS No	PROPORTION	
(Pentaerythritol Tentranitrate) PETN	78-11-5		
Ingredients not mentioned above, which are used in the product are not hazardous			

3. Hazards identification

Based on available information, this material is not classified as hazardous according to health criteria of international authorities.

Classified as Dangerous Goods under the UN 0065, Code for the Transport of Explosives by Road and Rail.

1.1D Explosives

None allocated

Class Poisons Schedule

4. First aid measures

The construction of the items prevents any chemical contamination.

Ingestion Eye contact	:	Seek medical attention. Wash eye for at least fifteen minutes. If irritation persists, it is a sensible precaution to seek medical
Skin		advice. Wash with soap and water
Inhalation	÷	If exposed to funds from detonation, in a poorly ventilated area, remove victim from exposure and
		fully recovered. Seek medical advice if effects persist.
Notes to physician	:	Treat symptomatically. Detonator assemblies are explosive – handle with care.

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5. Fire-fighting measures			
Specific hazards Fire fighting	 Explosives material. Avoid all ignition sources. Explosive – do not attempt to fight fires involving explosive material. Evacuate all personnel to a predetermined safe, distant location. Leave fire to burn unless it can be fought with a remote or fixed extinguishing system (sprinklers). In case of fire where the actual product is not involved, carefully remove the product to a safe distance. For transportation fires involving large quantities of detonating cord, such as trailer load, evacuated to no less than 1km in all directions. Burning material may emit toxic vapours, Fire Fighters to wear self-containing breathing apparatus. 		

6. Accidental release measures

If explosive powder is spilled form damaged cord, remove all other explosives from the area as well as any ignitions sources. Wet down and clean spilled powder using a damp sponge or rag, avoid applying friction or pressure to the product and place in an electrically conductive bag. Contamination of this material with sand, grit or dirt will render the material more sensitive to detonation. In the case of a transport accidents notify the Police, Explosives Inspectors and BME (Tel nr. - 27 11 709 8777). Explosives should not be abandoned at any location for any reason.

7. Handling and storage

Storage

Store in clean, dry magazine suitably licensed for Class 1.1 explosives. Handle with care. Do not subject materials to impact sparking or any type of heat.

8. Exposure controls/personal protection

:

National occupational exposure limits Engineering Measures	:	No value assigned for this specific material. When test firing, ensure adequate ventilation to maintain air concentration below Exposure Standard. Natural ventilation should be adequate under normal use conditions.
Personal protective equipment	:	Safety glasses and work gloves and clothes.

9. Physical and chemical properties

Form/Colour/Odour	:	Flexible cord of woven textile with a protected explosive core of PETN (white crystalline powder) covered by white colour plastic or textile jacket. May have a wax finish. No odour. Supplied on reels for easy application.
Solubility	:	Insoluble in water.

10. Stability and reactivity

Stability

Detonation can occur from impact, friction and excessive heating.

11. Toxicological information

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

Ingestion_ Eye contact Skin contact Inhalation Systemic Effects		PETN is moderately toxic if ingested, see systemic effects below. May cause eye irritation. PETN is not known as a skin irritant or sensitiser See systemic effects below PETN is s known coronary vasodilator, and ingestion or inhalation may result in lowering of blood pressure, headache or faintness, and a decreased tolerance for grain alcohol. Repeated over-
Carcinogenicity	:	exposure may result in chest pains in the absence of exposure. Systemic effects include dermatitis. No constituents are listed by NTP, IARC or OHSA

12. Ecological information

Avoid contaminating waterways

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13. Disposal considerations				
For small quantities	Follow destruction methods du procedures.	ly authorised by relevant auth	norities and inter	nal management
Large quantities	Should be returned to BME or	be disposed of in conjunction	with relevant au	uthorities.

14. Transport information

Road/Rail transport:

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

UN No	: UN 0065
Class/Division	: 1.1D
Packing group	: 11
Proper Shipping Name	: Detonating Cord

Air Transport:

TRANSPORT PROHIBITED under the Air Transport Association (IATA) Dangerous Goods Regulations for transport by air in passenger and cargo aircraft.

15. Regulatory Information

The product is classified as explosive and should be carefully handled and used following approved safety procedures either by or under the direction of competent, experienced persons in accordance with all applicable regulations or by-laws.

16. Other information

History

Date of printing	:	30-08-2018
Date of issue	:	30-08-2018
Date of previous issue	:	13-07-2017
Recommended by	:	B Victor – R&D and QA Manager
Authorised by		D Mynhardt – Executive Director Innovation Hub

Remarks:

This SDS summarises, 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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