DOCUMENT NO: SDS.BME-17 PAGE NO: 1 of 5 ISSUE DATE: 16-03-2020 REVISE DATE: 16-03-2022 REVISION: 5



Document Type:

Safety Data Sheet Conforms to ISO 11014:2009

Title:

INNOVEX[™] RG

1. Identification of the product and Company Identification

Product Name	INNOVEX™ RG	Manufactured/ supplied by
Product use	Bulk base emulsion	bme
		A division of Omnia Group (Pty) Ltd
Synonyms	INNOVEX [™] , Reactive ground emulsion	P.O. Box 70040
Chemical Formula	Not applicable	Bryanston
Emergency telephone number	(+27) 11 706 3398	South Africa 2021
		Tel: 27 11 7098791
		Fax:27 11 4633023

Composition/information on ingredients

Substance/preparation:

Chemical name* Europe Ammonium Nitrate	CAS No 6484-52-2	% < 60	EC Number 229-347-8	Classification O; R8 R5 Xn; R22 Xi; R36/38
Calcium Nitrate	10124-37-5	< 30	233-332-1	O: R8 Xn; R22 Xi: R36/38 R: 22/38
Fuel Oil Composition		< 10		R: 10
Urea	57-13-6	< 10	200-315-5	Xi: R36/38 S15
*See Section 16 for the full text of the R Phrases declared above				

3. Hazards identification

Classification O: R5; R8; R10

Xn: R22 Xi: R36/38

R: 44

Additional hazards: Will not readily burn on its own, but if subjected to extreme external heat for a period of time, water

can be driven off resulting in explosion risk.

Effects and symptoms: May cause irritation to sensitive skin. Harmful if swallowed. May cause irritation in case of eye

contact.

Aggravating conditions: Not applicable

See toxicological information (section 11)

DOCUMENT NO: SDS.BME-17 ISSUE DATE: 16-03-2020 REVISE DATE: 16-03-2022 REVISION: 5 PAGE NO: 2 of 5

4. First aid measures

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

Ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by

mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get

medical attention.

Skin contact : Incase of skin contact. Immediately flush skin with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water

may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye contact : Check for and remove any contact lenses. In case of contact immediately flush eyes with plenty of

water for at least 20 minutes. Cold water may be used. Get medical attention.

Note to physician : No specific treatment, treat symptomatically.

Protection of first-aiders : No additional remarks.

5. Fire-fighting measures

Extinguishing media

Suitable : Do not attempt to fight INNOVEX™RG fire

Not suitable : No additional remarks.

Unusual fire/explosion hazards : If a transport vehicle or surrounding combustible material burns, extinguish.

Special fire fighting procedures : IF FIRE IS OUT OF CONTROL or has spread to the INNOVEX™RG, this could result in detonation,

DO NOT FIGHT FIRE. Withdraw from the fire and let it burn itself out. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. First move people out of line-of-

sight of the scene and away from windows.

Protection of fire fighters : Wear overalls, gloves, boots and eye protection as well as self contained breathing apparatus.

6. Accidental release measures

Personal precautions : Overalls buttoned to the neck and wrist. Rubber boots. Gloves. Eye protection.

Environmental precautions : For small spills, make use of the oil spill kit to remove the spilled material.

For large spills, block source of spill and contain spill. Prevent entry into sewers, basements or confined areas. Use soil only to dyke if needed to stop the product from flowing. <u>Do not use</u> soil or dry earth to cover the spill. Use saw dust or an absorbent as per regulation to absorb the spill. Use

appropriate tools to collect into drums or suitable containers. Dispose waste using a professional registered waste disposal company.

Note: See section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling : Keep away from sources of ignition. Keep away from incompatibles, such as combustible material,

organic materials, alkalis and acids.

Storage : Store in steel tanks or containers. DO NOT store adjacent to any potentially extreme source of heat

or accumulation of combustible material. No open flames or smoking allowed in the vicinity.

Packaging materials Store in steel tanks.

Recommended use: : Store in separate containers/tanks.

Not suitable : No additional remarks.

8. Exposure controls/personal protection

Engineering measures : Provide exhaust ventilation or other engineering controls to keep in the airborne concentrations of

vapours below their respective occupational exposure limits.

Hygiene measures Wash hands after handling compounds and before eating, smoking, using ablution facilities and at

the end of the day.

DOCUMENT NO: SDS.BME-17 PAGE NO: 3 of 5 ISSUE DATE: 16-03-2020 REVISE DATE: 16-03-2022 REVISION: 5

Occupational exposure limits:

Ingredient name Occupational exposure limits No additional information No additional information

Recommended monitoring

procedures

No additional information Personal protective equipment

Respiratory system A respirator is not required under normal and intended conditions of product use. Skin and body

Overalls buttoned to the neck and wrist. Hands PVC gloves or similar suitable gloves.

Eyes Eye protection.

9. Physical and chemical properties

Physical state Viscous black emulsion

Colour Black Odour Fuel like **Odour threshold** Not available No data available **Boiling point Melting point** Not available Flash point Not available **Flammability** Flammable Density 1.45 - 1.50 g/ml Vapour Density Not available Vapour pressure Not available **Evaporation rate** Not available Solubility - Water Insoluble

Solubility - Solvent Soluble in most hydrocarbons

Solubility - Coefficient Not available

pН

Fire hazards in presence of

various substances

Auto-ignition temperature

Explosive properties

Viscosity

Neurotoxicity

Contact with combustible or organic material may cause fire

Acidic

Not available

Non-explosive (Risk of explosion if heated under confinement) 30 000 - 50 000 cP

Not available

10. Stability and reactivity

Stability Product is stable. As a standalone product, Innovex[™] RG may be used in ground temperatures up to

80°C. In the absence of reactive ground, the maximum time exposure (safe loading window) is 8 hours. In the presence of reactive ground, the maximum exposure time needs to be determined by

ground vs explosive isothermal testing

The material becomes explosive after addition of the separate sensitizing material just before pouring Conditions to avoid

down the blast hole. Avoid oxidising agents, combustible material, organic material, acids, alkali's,

reducing agents and metals.

Hazardous decomposition

product

Nitrous oxides and CO may be generated during detonation. Under normal storage conditions no

hazardous decomposition product occurs.

Hazardous polymerisation Will not occur.

11. Toxicological information

Eyes Hazardous in case of eye contact (irritant)

Hazardous in case of skin contact (irritant). Skin inflammation is characterised by itching, scaling, Skin

reddening or occasionally blistering

Inhalation None identified

Ingestion May cause burns to mouth, throat and stomach

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DOCUMENT NO: SDS.BME-17 PAGE NO: 4 of 5 ISSUE DATE: 16-03-2020 **REVISE DATE: 16-03-2022** REVISION: 5

12. Ecological information

Mobility Not available Soil/water partition coefficient Not available Persistence/degradability Not known Bio accumulative potential Not known German wgk Not known Remarks Not known

Aquatic toxicity:

Fish Extreme in high concentrations of nitrates affect fish and oil reduces oxygen in water.

Daphina As above Algae Not available

13. Disposal considerations

Methods of disposal Waste must be disposed of in accordance with federal, state and local environmental control

regulations.

Hazardous waste Waste classification

14. Transport information

Regulatory information	UN Number	Name and description	Class	UN Packaging Group	Additional information
ADR/RID Class	3375	OXIDISING Material (Liquid) N.O	5.1	III	Limited quantity
ADN Class	3375	OXIDISING Material (Liquid) N.O	5.1	III	CEFIC Tremcard
IMDG Class	3375	OXIDISING Material (Liquid) N.O	5.1	III	Emergency schedules
IATA-DGR Class	3375	OXIDISING Material (Liquid) N.O	5.1	III	AIR: Forbidden RAIL: Applicable Hazchem and specific requirements of the relevant transport authority. Both Rail and Road must comply with: Hazardous Substance Act No 15 of 1973 and the OHSAct specifically the Regulations for Hazardous Chemical Substances SEA: As per UN recommendation and the IMDG Code.

15. Regulatory Information

EU Regulation Hazard symbols Indicator of Danger:

Risk phrases R5 - Heating may cause explosion

R8 - Contact with combustible material may cause fire

R10 - Flammable

R 22 - Harmful if swallowed R36 - Irritating to eyes R38 - Irritating to skin

R44 - Risk of explosion if heated under confinement

Safety phrases S15 – Keep away from heat

S17 - Keep away from combustibles

S24/25 - Avoid contact with skin and eyes

Product use

DOCUMENT NO: SDS.BME-17 ISSUE DATE: 16-03-2020 REVISE DATE: 16-03-2022 REVISION: 5 PAGE NO: 5 of 5

16. Other informatio	n		
Full text of R-Phrases with No:	R3	Extreme risk of explosion by shock, friction, fire or other sources of ignition	
	R5	Heating may cause an explosion	
	R8	Contact with combustible material may cause fire	
	R9	Explosive when mixed with combustible material	
	R10	Flammable	
	R61	May cause harm to the unborn child	
	R62	Possible risk of impaired fertility	
	R20/22	Harmful by inhalation and if swallowed	
	R22	Harmful if swallowed	
	R36/38	Irritating to eyes and skin	
	R33	Danger of cumulative effects	
	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment	
Text of classifications:			
Appearing in Section 2	E - Explo	sives	
	O - Oxidising		
	F - Highl	y flammable	
	Repr. Cat. 1 – Toxic for reproduction Category 1		
	Repr. Cat. 3 – Toxic for reproduction Category 3		
	Xn – Harmful		
	Xi – Irrita		
	N – Dangerous for the environment		

History

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Recommended by : C Oussoren – LAB Supervisor

Authorised by : DH Voogt – General Manager – Production and Logistics

Remarks:

This SDS summarises, at the date of issue, our best knowledge of 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.