

	Document Type:
	Safety Data Sheet Conforms to ISO 11014:2009
	Title:
	INNOVEX® LATERAL / INNOVEX® UPHOLE (Canada)

1. Identification of the product and Company Identification

Product Name	INNOVEX® LATERAL / INNOVEX® UPHOLE	Manufactured/ supplied by
Product use	Base emulsion	BME
Synonyms	Re-pumpable emulsion	A division of Omnia Group (Pty) Ltd
Chemical Formula	Not applicable	<i>Physical address</i>
Emergency telephone number	(+27) 11 608-3300	Omnia Holdings, Building H Monte Circle Business Park 178 Montecasino Boulevard Fourways Sandton, 2191
QR code		<i>Postal address</i> P.O. Box 70040 Bryanston, 2021 Gauteng, South Africa <i>Contact</i> Tel: +27 11 7098888 E-mail: info@bme.co.za

2. Hazards identification

GHS Classification:	 Ox. Liq. 2 H272 May intensify fire; oxidizer  Acute Tox. 4: H302 Harmful if swallowed Skin Irrit. 2: H315 Causes skin irritation Eye Irritation 2A: H319 Causes serious eye irritation Acute Tox. 5: H335 May be harmful if inhaled GHS precautionary Statements: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. IF SWALLOWED: Call a doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Dispose of contents/container in accordance with local/regional/national/international regulations.
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)

3. Composition/information on ingredients

Substance/preparation:

Chemical Name	CAS No	%	GHS Classification
Ammonium Nitrate	6484-52-2	35 – 55	 Ox. Liq. 2 H272  Skin Irrit. 2, H315 Eye Irritation 2A, H319 Acute Tox. 5, H303 Acute Tox. 5, H333
Calcium Nitrate	10124-37-5	35 – 55	 Ox. Sol. 2 H272  Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irritation 2A, H319
Fuel Oil Composition		6 – 8	 Flam. Liq. 3, H226
Water	7732-18-5	1.5 – 8	
Sodium acetate	127-09-3	0.1 – 0.5	
Thiourea	62-56-6	0.05 – 0.2	 Carc. 2, H351 Repr. 2, H361  Aquatic Chronic 2, H411  Acute Tox. 4, H302 Acute Tox. 5, H313
Sulphamic Acid	5329-14-6	0 – 2.5	 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 5, H303 Aquatic Chronic 3, H412
Emulsifier composition		1 - 8	

*Percentages listed are weight by weight (w/w%) for liquids and solids

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	: In case 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.

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5. Fire-fighting measures

Extinguishing media	
Suitable	: Do not attempt to fight INNOVEX® LATERAL or INNOVEX® UPHOLE 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™ LATERAL or INNOVEX®UPHOLE, 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.

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.
Eyes	: Eye protection.

9. Physical and chemical properties

Physical state	: Viscous brown emulsion
Colour	: Brown
Odour	: Fuel like
Odour threshold	: Not available
Boiling point	: No data available
Melting point	: Not available
Flash point	: Not available
Flammability	: Not Classified
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
pH	: Acidic
Fire hazards in presence of various substances	: Contact with combustible or organic material may cause fire
Auto-ignition temperature	: Not available
Explosive properties	: Non-explosive (Risk of explosion if heated under confinement)
Viscosity	: 30 000 – 50 000 cP
Neurotoxicity	: Not available

10. Stability and reactivity

Stability	: Product is stable. As a standalone product, Innovex® LATERAL or INNOVEX® UPHOLE may be used in ground temperatures up to 65°C. It may not be used in reactive ground or hot holes.
Conditions to avoid	: The material becomes explosive after addition of the separate sensitizing material just before pouring 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)
Skin	: Hazardous in case of skin contact (irritant). Skin inflammation is characterised by itching, scaling, reddening or occasionally blistering
Inhalation	: None identified
Ingestion	: May cause burns to mouth, throat and stomach
Target organs	: None identified
Acute toxicity	: None identified
Carcinogenic	: None identified
Mutagenicity	: None identified
Reproductive hazards	: None identified

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.
Daphnia	: As above.
Algae	: Not available.

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13. Disposal considerations

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

Waste classification : Hazardous waste

14. Transport information

Regulatory information	UN Number	Name and description	Class	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	CEPIC 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

R22 – 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 :

Classification and labeling have been performed according to EU directives 67/548/EEC and 1999/45/EC including amendments and the intended use.

16. Other information

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

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Recommended by	:	K Govender – LAB Supervisor
Authorised by	:	Myra Coetzer-Acting R&D Lab Manager

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.

***This document refers to emulsion explosives produced and used in Canada.**