

	Document Type:
	<h1>Safety Data Sheet</h1> <p>Conforms to ISO 11014-1 and 91/155/EEC</p>
	Title:
	<h2>Losberg Re-Work</h2>

1. Identification of the product and Company Identification

Product Name	Losberg Re-Work	Manufactured/ supplied by
Product use		BME
Synonyms	Losberg Re-Work	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

Substance/preparation:

Chemical name*	CAS No	%	EC Number	Classification
Europe Ammonium Nitrate NH ₄ NO ₃	6484-52-2	> 60	229-347-8	E; R5 Xi; R36/38
Nitrates	-	-	-	Xn: R22 Xi: R36/38
Hydrocarbon fuels				
*See Section 16 for the full text of the R Phrases declared above				
*Occupational exposure limit(s) if available, are listed in section 8				

3. Hazards identification

This substance is classified as dangerous according to Directive 1999/45/EC and its amendments	
Classification	E: R5, Xi: R22 Xi: R36/38
Additional hazards:	Non identified
Effects and symptoms	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 field burning or detonation
Aggravating conditions	Avoid incompatible materials and / or chemicals – Sodium Nitrite until application of product

See toxicological information (section 11)

4. First aid measures

Inhalation	: Not applicable
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 if symptoms appear.
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. Get medical attention
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 fight fire when it reaches material.
Not suitable	: No additional remarks.
Unusual fire/explosion hazards	: Hazardous gases will result from fire or detonation (nitrogen oxides and carbon oxide).
Special fire fighting procedures	: When fighting fire before explosives are involved, fire fighters should wear positive pressure self contained breathing apparatus (SCBA) and full turnout gear. Fire fighters' protective clothing will provide limited protection. DO NOT ATTEMPT TO FIGHT FIRE WHEN IT REACHES EXPLOSIVES. Fire should be allowed to burn out – withdraw all personnel from the vicinity of the incident (out of line of sight and away from windows or glass panels).
Protection of fire fighters	: Use an approved/certified respirator or equipment.

6. Accidental release measures

Personal precautions	: Do not touch spilled material or damaged vessels or containers. Evacuate surrounding areas.
Environmental precautions	: 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.
Storage	: 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	
Recommended use:	: Store in PVC or steel tanks
Not suitable	: No additional remarks.

8. Exposure controls/personal protection

Engineering measures	: None
Hygiene measures	: Wash hands after handling product 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	: None
Skin and body	: Overalls and safety shoes
Hands	: PVC gloves
Eyes	: Wear goggles / glasses.

9. Physical and chemical properties

Physical state	: Emulsion
Colour	: Cream / grey colour
Odour	: Sharp, fuel like
Odour threshold	: No data available
Boiling point	: No data available
Melting point	: No data available
Flash point	: No data available
Flammability	: Flammable at elevated temperature
Density	: 1.3 – 1.5 g/ml
Vapour Density	: Not available
Vapour pressure	: Not available
Evaporation rate	: Not available
Solubility - Water	: Insoluble
Solubility – Solvent	: Soluble in most hydrocarbon fuels
Solubility - Coefficient	: Not available
pH	: Not applicable

9. Physical and chemical properties Continued:

Fire hazards in presence of various substances	:	Extreme external heat for a period of time, or contact with combustible material may cause fire
Auto-ignition temperature	:	Not available
Viscosity	:	Not available
Neurotoxicity	:	Not available

10. Stability and reactivity

Stability	:	The product is stable
Conditions to avoid	:	Avoid detergents and contact with Sodium Nitrite
Hazardous decomposition product	:	Hazardous decomposition products – 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	:	None known
Skin	:	None known
Inhalation	:	None known
Ingestion	:	None known
Target organs	:	None known
Acute toxicity	:	None known
Carcinogenic	:	None known
Mutagenicity	:	None known
Reproductive hazards	:	None known

12. Ecological information

Mobility	:	No data available
Soil/water partition coefficient	:	No data available
Persistence/degradability	:	No data available
Bio accumulative potential	:	No data available

13. Disposal considerations

Methods of disposal	:	Disposal should be in accordance with the current applicable explosive legislation. Do not flush into natural water systems. No packaging.
Waste classification	:	Hazardous chemical waste
Destruction	:	The preferred method of destruction of emulsion explosives is by burning in a licensed facility. It is strongly recommended that the supplier be contacted for destruction arrangements, at the supplier's licensed facilities. Should the user have access to a licensed burning facility the supplier should be contacted for approved procedures for destruction via burning

14. Transport information

Regulatory information	UN Number	Name and description	Class	Additional information
ADR/RID Class	3139	OXIDISING LIQUID N O S	5.1D	AIR: Product may not be transported by Air 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 International Maritime Code.
ADN Class	3139		5.1D	
IMDG Class	3139		1.1D	
IATA-DGR Class	3139		1.1D	

15. Regulatory Information

EU Regulation

Hazard symbols

Indicator of Danger:

Risk phrases

: R2 – Risk of explosion by shock, fire or other sources of ignition
 : R8 - Contact with combustible material may cause fire
 : R36/38 - Irritating to eyes and skin

Safety phrases

: S16 – Keep away from sources of ignition
 : S34 – Avoid shock and friction
 : S24/25 – Avoid contact with skin and eyes

Product use

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

15. Other information

Full text of R-Phrases with no:

R2 Risk of explosion by shock, friction, fire or other source of ignition
 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 – Explosives
 O – Oxidising
 F - Highly flammable
 Repr. Cat. 1 – Toxic for reproduction Category 1
 Repr. Cat. 3 – Toxic for reproduction Category 3
 Xn – Harmful
 Xi – Irritant
 N – Dangerous for the environment

History

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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.