

	Document Type: <b>Material Safety Data Sheet</b>
	Title: <b>MEGAPUMP</b>

### 1. Identification of the product and Company Identification

<b>Product Name</b>	MEGAPUMP	<b>Manufactured/ supplied by</b>
<b>Product use</b>	Base emulsion	<b>BME</b> A division of the Omnia Group P.O. Box 70040 Bryanston South Africa 2021
<b>Synonyms</b>	Repump	
<b>Chemical Formula</b>		
<b>Emergency telephone number</b>	<b>(+27) 11 704 3398</b>	

### 2. Composition/information on ingredients

Substance/preparation:				
Chemical name*	CAS No	%	EC Number	Classification
Europe Ammonium Nitrate	6484-52-2	< 60	229-347-8	O;R8 R5 Xn; R22 Xi; R36/38
Calcium Nitrate	10124-37-5	< 30	233-332-1	O, R8 Xn;R22 Xi,R36/38
Fuel Oil Composition		< 10		R 22/38 R10
*See Section 16 for the full text of the R Phrases declared above				

### 3. Hazards identification

**Classification** O;R5;R8,  
Xn – R10,22,  
Xi - R36/38  
R44

**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)

### 4. First aid measures

**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 remark

## 5. Fire-fighting measures

### Extinguishing media

- Suitable** : Do not attempt to fight Megapump fire
- Not suitable** : No additional remark
- 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 Megapump, this could results 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** : Block source of spill and contain spill. Absorb with DRY earth or sand. Prevent entry into sewers, basements or confined areas, dyke if needed. If spill occurs on roadside, mix with dry earth. 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	

### 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	: Flammable
Density	: 1.45 – 1.50 g/cc
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
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 wkg	: 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

## 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

### Transport Regulations

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	CEFIC Tremcard
IMDG Class	3375	OXIDISING Material (Liquid) N.O	5.1	III	<b>Emergency schedules</b>
IATA-DGR Class	3375	OXIDISING Material (Liquid) N.O	5.1	III	<b>AIR:</b> Forbidden <b>RAIL:</b> Applicable Hazchem and specific requirements of the relevant transport authority. Both <b>Rail</b> and <b>Road</b> must comply with: Hazardous Substance Act No 15 of 1973 and the OHSAct specifically the Regulations for Hazardous Chemical Substances <b>SEA:</b> As per UN recommendation and the IMDG Code.

## 15. Regulatory Information

### EU Regulation

### Hazard symbols

### Indicator of Danger:

#### Risk phrases

#### Safety phrases

#### Product use

- :  
 :  
 : 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  
 : S15 – Keep away from heat  
 : S17 – Keep away from combustibles  
 : S24/25 – Avoid contact with skin and eyes  
 : 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	
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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**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

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**Remark:**

This MSDS 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 MSDS in the context of how the user intends to handle and use the product in the workplace.