

	Document Type:	Safety Data Sheet Conforms to ISO 11014-1
	Title:	EMULSIFIED GASSING AGENT (EGA)

1. Identification of the product and Company Identification

Product Name	Emulsified Gassing Agent (EGA)	Manufactured/ supplied by
Product use	Gassing agent	BME
Synonyms		A member of Omnia Group (Pty) Ltd
Chemical Formula	Not applicable	P.O. Box 70040
Emergency telephone number	(+27) 11 608-3300	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 Diesel fuel				O; Xn; R22 Xi; R36/38
Sodium Nitrite				Xn; R22 Xi; R36/38
*See Section 16 for the full text of the R Phrases declared above				

3. Hazards identification

This substance is classified as dangerous according to Directive 67/548/EEC and its amendments

Classification	Xn: R22, Xi: R36/38
Additional hazards	No additional data
Effects and symptoms	Irritant in case of eye contact. Contact may cause stinging, tearing and redness.
Aggravating conditions	Prolonged contact may cause irritation, dermatitis or other skin disorders

See toxicological information (section 11)

4. First aid measures

Inhalation	: Remove to a well-ventilated area. If breathing difficulties persist – seek medical attention.
Ingestion	: May cause nausea, vomiting and gastro-intestinal irritation.
Skin contact	: In case of skin contact. Immediately wash affected area with soap and rinse with water.
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. Seek medical attention.
Note to physician	: No specific treatment, treat symptomatically.
Protection of first-aiders	: No additional remarks.

Printed Date: Tuesday, 18 September 2018.

Copies of this document is allowed. The onus is on the user to ensure that the information contained in the document is valid for use and/or dissemination. Without the approved Red Document Control Stamp, this document shall be seen as an uncontrolled copy and shall not be updated.

5. Fire-fighting measures

Extinguishing media	
Suitable	: Use Dry chemical powder or suitable foam extinguishing agent. If mixture separates treat as a fuel 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 a transport vehicle or surrounding combustible material burns, extinguish. If this fire is out of control or has spread to other chemical products (e.g. High Energy Fuel), evacuate persons within 1-2 km radius and allow the fire to burn itself out.
Protection of fire fighters	: Wear overalls, gloves, boots and eye protection as a minimum.

6. Accidental release measures

Personal precautions	: Overalls buttoned to the neck and wrist. Rubber boots. Gloves. Eye protection. Suggested protective clothing might not be sufficient.
Environmental precautions	: Block source of spill and contain spill. Absorb with inert material, earth or soil. Prevent spillage 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 PVC or steel tanks. 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. Store away / separate from acids/alkaline.
Packaging materials	: Store in PVC or steel tanks.
Recommended use:	: Store in separate containers/tanks.
Not suitable	: No additional remarks.

8. Exposure controls/personal protection

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	: No
Skin and body	: Protective clothing to minimise skin contact
Hands	: Chemically resistant gloves
Eyes	: Eye protection

9. Physical and chemical properties

Physical state	: White – pale yellow emulsion
Colour	: White / whit grey / pale yellow liquid, greasy feeling
Odour	: Fatty acid smell / slightly aliphatic aroma
Flash point	: Greater than 54°C
Flammability	: Not flammable
Density	: 1.10 g/ml
Vapour pressure	: 2.0 (Fuel Oil)
Evaporation rate	: Not available
Solubility - Water	: None
Solubility – Solvent	: Diesel

Printed Date: Tuesday, 18 September 2018.

Copies of this document is allowed. The onus is on the user to ensure that the information contained in the document is valid for use and/or dissemination. Without the approved Red Document Control Stamp, this document shall be seen as an uncontrolled copy and shall not be updated.

9. Physical and chemical properties Continued:

Explosive properties : Non-explosive (Risk of explosion if subjected to extreme external heat)
 Viscosity : 2000 – 7000 cPs

10. Stability and reactivity

Stability :
 Conditions to avoid : Avoid long term storage of product as separation will occur.
 Hazardous decomposition product : May produce nitrogen oxides. Reacts with amines to product nitrosamines.
 Incompatible materials : Not compatible with acids, activated carbons and cyanides.

11. Toxicological information

Eyes : Irritant
 Skin : Hazardous in case of skin contact (irritation, dermatitis or other skin disorder).
 Inhalation : Prolonged exposure may cause irritation to the nose and throat.
 Ingestion : May cause nausea, vomiting and gastro-intestinal irritation.

12. Ecological information

Aquatic toxicity:
 Fish : Not established
 Daphnia : Not established
 Algae : Not established

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	UN Packaging Group	Additional information
ADR/RID Class	1500	OXIDISING LIQUID N.O.S.	5.1	III	Limited quantity
ADN Class	1500	OXIDISING LIQUID N.O.S.	5.1	III	CEFIC Tremcard
IMDG Class	1500	OXIDISING LIQUID N.O.S.	5.1	III	Emergency schedules
IATA-DGR Class	1500	OXIDISING LIQUID N.O.S.	5.1	III	AIR: Recommendation on transport of dangerous goods & the International Civil Aviation Organisations. Technical instructions for the Safe Transport of Dangerous Goods 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.

Printed Date: Tuesday, 18 September 2018.

Copies of this document is allowed. The onus is on the user to ensure that the information contained in the document is valid for use and/or dissemination. Without the approved Red Document Control Stamp, this document shall be seen as an uncontrolled copy and shall not be updated.

15. Regulatory Information

EU Regulation

Hazard symbols

Indicator of Danger: :

Risk phrases : R44 – Risk of explosion if heated under confinement
 : R8 - Contact with combustible material may cause fire
 : R36/38 - Irritating to eyes and skin

Safety phrases : S15 – Keep away from heat
 : S17 – Keep away from combustibles
 : S25/25 – 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.

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

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

Date of printing : 28-08-2018
Date of issue : 28-08-2018
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.