bme A member of the Omnia Group

Document Type:

Safety Data Sheet

Conforms to ISO 11014:2009

Title:

E23™

1. Identification of the product and Company Identification

Product Name	E23™	**Manufactured/ supplied by**
Product Type	Emulsifier	**BME** A member of Omnia Group (Pty) Ltd P.O. Box 70040 Bryanston South Africa 2021 Tel: 27 11 7098791 Fax:27 11 4633023
Synonyms	None	
Chemical Formula	Not applicable	
Emergency telephone number	**(+27) 011608-3300**	

2. Composition/information on ingredients

Substance/preparation:

Chemical name* **Europe**	**CAS No**	**%**	**EC Number**	**Classification**
Phosphoric Acid alkyl	Confidential	5-15		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 Xi - R36/38
Additional hazards No additional data
Effects and symptoms In case of eye contact - can cause burning, tearing and redness.
Aggravating conditions Can cause skin burns

See toxicological information (section 11)

4. First aid measures

Inhalation : Remove to a well-ventilated area and keep at rest in a position confortable for breathing. If breathing difficulties persist – seek medical attention / call poison centre.
Ingestion : DO NOT induce vomiting, immediately seek medical attention / call poison centre.
Skin contact : Immediately remove contaminated clothing and wash affected area with soap and rinse with water. Seek medical attention / poison centre.
Eye contact : Check for and remove any contact lenses if present. In case of contact immediately flush eyes with plenty of water for at least 20 minutes. Cold water may be used. Seek medical attention / or contact poison centre.
Note to physician : No specific treatment, treat symptomatically.
Protection of first-aiders : No additional remarks.

5. Fire-fighting measures

Extinguishing media
Suitable : Use CO_2, Dry chemical powder or suitable foam extinguishing agent. Water can be used to cool and protect exposed material.
Flash point : 170°C, 338°F PMCC
Unusual fire/explosion hazards : Not determined.
Special fire fighting procedures : Recommend wearing self-contained breathing apparatus.
Protection of fire fighters : Self -contained breathing apparatus. 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 no be sufficient.
Environmental precautions	:	Ventilate areas if spilled in confined space or other poorly ventilated areas. Prevent spillage entry into sewers, waterways, dispose of in accordance with national or local environmental regulations. If spill occurs on roadside, pick-up free liquid for recycle, and/or disposal, using a professional registered waste disposal company. Use appropriate tools to collect into suitable containers. Residual can be adsorbed on inert material.

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

7. Handling and storage

Handling	:	Do not breathe dust or mist. Wash thoroughly after handling. Launder contaminated clothing before re-use.
Maximum Handling Temperature	:	Not determined
Pumping Temperature	:	Not determined
Storage	:	Store in steel drums. Keep containers closed when not in use. DO NOT discharge into drains or the environment. Dispose to an authorised waste site. Use appropriate containment to avoid environmental contamination. Empty container contains product residue, which may exhibit hazards of product. No special storage requirements required.
Maximum Storage Temperature	:	Not determined
Loading Temperature	:	Not determined
Packaging materials	:	Store in steel drums.
Storage procedures	:	No special storage precautions required.

8. Exposure controls/personal protection

Exposure Limits	:	None established
Engineering measures	:	Use with adequate ventilation
Gloves	:	Use Nitrile or neoprene gloves
Eye Protection	:	Chemical goggles or face shield
Respiratory Protection	:	Use NIOSH/MSHA approved respirator with an organic vapour and dust/mist cartridge if the recommended exposure limit is exceeded. Use NIOSH/MSHA approved disposable dust/mist mask.

Occupational exposure limits:

Ingredient name	Occupational exposure limits
Contains mineral oil	Under conditions which may generate mists, observe the OSHA PEL of 5mg per cubic meter, ACGIH STEL of 10mg per cubic meter.

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 (safety goggles / glasses)

9. Physical and chemical properties

Flash point	:	170°C, 338°F PMCC (Typical)
Flammability Level Upper/Lower	:	Not determined
Auto-ignition temperature	:	Not determined
Explosive properties	:	Non-explosive (Material does not have explosive properties)
Vapour pressure	:	Not determined
pH	:	Not determined
Specific Gravity	:	0.94 (20°C)
Density	:	0.92 – 0.95g/ml (20°C)
Solubility - Water	:	Insoluble
Percent Solid	:	Not determined
Percent Volatile	:	Not determined
Volatile Organic Compound	:	Not determined
Vapour Density	:	Not determined
Evaporation rate	:	Not determined
Odour	:	Mild
Physical state	:	Brown liquid
Colour	:	Brown
Viscosity	:	350 - 600 cP (40°C)
Odour threshold	:	Not determined
Boiling point	:	Not determined
Pour Point Temperature	:	-27°C, -17°F
Melting / Freezing point	:	Not determined
Neuro toxicity	:	Not available

10. Stability and reactivity

Stability	:	Material is normally stable at moderately elevated temperature and pressures.
Decomposition Temperature	:	Not determined
Incompatibility	:	Oxidising agents
Hazardous Polymerisation	:	Will not occur
Thermal Decomposition	:	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Under combustion conditions, oxides of the following elements will be formed: Phosphorous
Conditions to avoid	:	Not determined

11. Toxicological information

Acute Exposure:

Eyes	:	Corrosive to eyes, Based on data from components or similar materials
Skin	:	Corrosive to the skin. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying and cracking of the skin.
Dermal Toxicity	:	The LD50 in rabbits is >2000mg/Kg. Based on data from components or similar materials.
Inhalation Toxicity	:	No data available to indicate product or components may be a toxic inhalation hazard
Oral Toxicity	:	The LD50 in rats is based on data from components or similar materials. Swallowing this material can cause burns to the mouth and esophagus. Asphyxiation can occur from swelling of the throat. Perforation of the esophagus and stomach can occur.
Dermal Sensitisation	:	No data available to indicate product or components may be a skin sensitiser.
Inhalation Sensitisation	:	No data available to indicate product or components may be respiratory sensitiser

Chronic Exposure:

Chronic toxicity	:	No data available to indicate product or components present at greater than 1% are health hazards
Carcinogenicity	:	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IRAC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.
Mutagenicity	:	No data available to indicate product or components present at greater than 0.1% are mutagenic or genotoxic.
Reproductive Toxicity	:	No data available to indicate product or components present at greater than 0.1% that may cause reproductive toxicity
Teratogenicity	:	No data available to indicate product or components present at greater than 0.1% may cause birth defects

12. Ecological information

Soil/water partition coefficient : Not determined
Biodegradation : At least 25% of the components in this product show moderate biodegradation based on OECD 301-type test data. At least 25% of the components in this product show moderate biodegradation based on OECD 302-type test data.
Bio accumulation potential : 25% or greater of the components potentially bioconcentrate, based on octanol/water coefficients.
Remarks : None

Aquatic toxicity:
Freshwater Fish : Not determined
Freshwater Invertebrates : Not determined
Algae Inhibition : The acute EC50 is 10 – 100mg/L based on component data
Saltwater Fish : Not determined
Saltwater Invertebrates : Not determined

13. Disposal considerations

Methods of disposal : Waste must be disposed of in accordance with federal, state and local environmental control regulations. Treatment, storage, transportation, and disposal must be in accordance with applicable National and Provincial regulations.

14. Transport information

Regulatory information	UN Number	Name and description	Class	Packaging Group	Additional information
ICAO/IATA I & II	1760	CORROSIVE LIQUID N.O.S.	8	III	
ADN Class	1760	CORROSIVE LIQUID N.O.S.	8	III	
IMDG Class	1760	CORROSIVE LIQUID N.O.S.	8	III	**Phosphoric acid alkyl**
U.S. DOT Bulk	1760	CORROSIVE LIQUID N.O.S.	8	III	**Phosphoric acid alkyl**

15. Regulatory Information

EU Regulation
Hazard symbols :
Indicator of Danger:
Risk phrases : Xi – Irritant (Phosphoric acid alkyl)
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
: R20/22 – Harmful by inhalation and if swallowed
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

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

Remarks:

This SDS summarizes, 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.