

	Document Type:	<b>Safety Data Sheet</b> Conforms to ISO 11014-1
	Title:	<b>E26UF™</b>

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

<b>Product Name</b>	E26UF™	<b>Manufactured/ supplied by</b> <b>BME</b> A member of Omnia Group (Pty) Ltd P.O. Box 70040 Bryanston South Africa 2021 Tel: 27 11 7098791 Fax:27 11 4633023
<b>Product Type</b>	Fuel blend	
<b>Synonyms</b>	None	
<b>Chemical Formula</b>	Not applicable	
<b>Emergency telephone number</b>	<b>(+27) 011608-3300</b>	

### 2. Composition/information on ingredients

**Substance/preparation:**

Chemical name*	CAS No	%	EC Number	Classification
Europe Phosphoric Acid alkyl	Confidential	0-10		R36/38
Solvent blend (Hydrocarbon)	Confidential	30-70%		R10, R36/37/38, R52/53, R67 Class 3 solvent
*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

<b>Classification</b>	Xi - R36/38, R10, R36/37/38, R52/53, R67, Class 3 solvent
<b>Additional hazards</b>	This product contains flammable liquid. Keep away from ignition source.
<b>Effects and symptoms</b>	In case of eye contact - can cause burning, tearing and redness. It can cause skin irritation.
<b>Aggravating conditions</b>	Can cause skin burns

See toxicological information (section 11)

### 4. First aid measures

<b>Inhalation</b>	: Remove to a well-ventilated area and keep at rest in a position comfortable for breathing. If breathing difficulties persist – seek medical attention / call poison centre.
<b>Ingestion</b>	: DO NOT induce vomiting, immediately seek medical attention / call poison centre
<b>Skin contact</b>	: Immediately remove contaminated clothing and wash affected area with soap and rinse with water. Seek medical attention / poison centre. Launder contaminated clothing before reuse.
<b>Eye contact</b>	: 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.
<b>Note to physician</b>	: No specific treatment, treat symptomatically.
<b>Protection of first-aiders</b>	: 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

<b>Extinguishing media Suitable</b>	:	Use CO <sub>2</sub> , Dry chemical powder or suitable foam extinguishing agent. Water can be used to cool and protect exposed material.
<b>Flash point</b>	:	> 60°C (ASTM D-56).
<b>Unusual fire/explosion hazards</b>	:	Product contains some flammable solvent. Vapour accumulation could flash or explode if in contact with an open flame.
<b>Special fire fighting procedures</b>	:	Recommend wearing self-contained breathing apparatus. Prevent runoff from fire control or dilution from entering municipal sewers or drinking water supply.
<b>Protection of fire fighters</b>	:	Self -contained breathing apparatus. Wear overalls, gloves, boots and eye protection as a minimum.

## 6. Accidental release measures

<b>Personal precautions</b>	:	Overalls buttoned to the neck and wrist. Rubber boots, impervious gloves, eye protection. Good personal hygiene practices should be followed.
<b>Environmental precautions</b>	:	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

<b>Handling</b>	:	Avoid contact with eyes. Avoid prolonged repeated skin contact. Avoid inhalation of vapors or mists. Use in a well-ventilated area away from all ignition sources. Wash thoroughly after handling. Launder contaminated clothing before re-use.
<b>Maximum Handling Temperature</b>	:	Not determined
<b>Pumping Temperature</b>	:	Not determined
<b>Storage</b>	:	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. Store away from all ignition sources in a cool, well ventilated area. No special storage requirements required.
<b>Maximum Storage Temperature</b>	:	Not determined
<b>Loading Temperature</b>	:	Not determined
<b>Packaging materials</b>	:	Store in steel drums.
<b>Storage procedures</b>	:	<u>No special storage precautions required.</u>

## 8. Exposure controls/personal protection

<b>Exposure Limits</b>	:	None established.
<b>Engineering measures</b>	:	Use with adequate ventilation. Explosive proof ventilation equipment with local exhaust is desirable.
<b>Gloves</b>	:	Use Nitrile or neoprene gloves. Good personal hygiene practices should always be followed.
<b>Eye Protection</b>	:	Chemical goggles or face shield.
<b>Respiratory Protection</b>	:	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. Self-contained breathing apparatus may be required for use in confined or enclosed spaces.

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.

### Occupational exposure limits:

<b>Ingredient name</b> Contains mineral oil	<b>Occupational exposure limits</b> Under conditions which may generate mists, observe the OSHA PEL of 5mg per cubic meter, ACGIH STEL of 10mg per cubic meter.
Flammable solvent	525mg per cubic meter limits shown for guidance only. Follow applicable regulations.
<b>Recommended monitoring procedures</b>	: No additional information
<b>Personal protective equipment</b>	
<b>Respiratory system</b>	: Appropriate respiratory equipment must be used when airborne concentrations are unknown or exceed the recommended exposure limit.
<b>Skin and body</b>	: Protective clothing to minimise skin contact.
<b>Hands</b>	: Chemically resistant gloves.
<b>Eyes</b>	: Eye protection (safety goggles / glasses).

## 9. Physical and chemical properties

<b>Flash point</b>	: > 60°C (ASTM D-56)
<b>Flammability Level Upper/Lower</b>	: Not determined
<b>Auto-ignition temperature</b>	: Not determined
<b>Explosive properties</b>	: Not determined
<b>Vapour pressure</b>	: Not determined
<b>pH</b>	: Not determined
<b>Specific Gravity</b>	: 0.86 – 0.90 (20°C)
<b>Density</b>	: 0.85 – 0.90g/ml (20°C)
<b>Solubility - Water</b>	: Immiscible
<b>Percent Solid</b>	: Not determined
<b>Percent Volatile</b>	: Not determined
<b>Volatile Organic Compound</b>	: Not determined
<b>Vapour Density</b>	: Not determined
<b>Evaporation rate</b>	: Not determined
<b>Odour</b>	: Mild
<b>Physical state</b>	: Brown liquid
<b>Colour</b>	: Brown
<b>Viscosity</b>	: 65-90 cPs (40°C)
<b>Odour threshold</b>	: Not determined
<b>Boiling point</b>	: Not determined
<b>Pour Point Temperature</b>	: Not determined
<b>Melting / Freezing point</b>	: Not determined
<b>Neuro toxicity</b>	: Not available

## 10. Stability and reactivity

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

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.

## 11. Toxicological information

<b>Acute Exposure:</b>	
<b>Eyes</b>	: Corrosive to eyes, based on data from components or similar materials. Eye irritant.
<b>Skin</b>	: Corrosive to the skin. Based on data from components or similar materials. Prolonged or repeated skin contact may cause dermatitis. Symptoms may include redness, edema, drying and cracking of the skin.
<b>Dermal Toxicity</b>	: The LD50 in rabbits is >2000mg/Kg. Based on data from components or similar materials.
<b>Inhalation Toxicity</b>	: Harmful if inhaled.
<b>Oral Toxicity</b>	: 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. Harmful.
<b>Dermal Sensitisation</b>	: No data available to indicate product or components may be a skin sensitiser.
<b>Inhalation Sensitisation</b>	: No data available to indicate product or components may be respiratory sensitizer.
<b>Chronic Exposure:</b>	
<b>Chronic toxicity</b>	: No data available to indicate product or components present at greater than 1% are health hazards
<b>Carcinogenicity</b>	: This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IRAC.
<b>Mutagenicity</b>	: No data available to indicate product or components present at greater than 0.1% are mutagenic or genotoxic.
<b>Reproductive Toxicity</b>	: No data available to indicate product or components present at greater than 0.1% that may cause reproductive toxicity
<b>Teratogenicity</b>	: No data available to indicate product or components present at greater than 0.1% may cause birth defects

## 12. Ecological information

<b>Soil/water partition coefficient</b>	: Not determined
<b>Biodegradation</b>	: 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.
<b>Bio accumulation potential</b>	: 25% or greater of the components potentially bioconcentrate, based on octanol/water coefficients.
<b>Remarks</b>	: None
<b>Aquatic toxicity:</b>	
<b>Freshwater Fish</b>	: Not determined
<b>Freshwater Invertebrates</b>	: Not determined
<b>Algae Inhibition</b>	: Not determined
<b>Saltwater Fish</b>	: Not determined
<b>Saltwater Invertebrates</b>	: Not determined

## 13. Disposal considerations

<b>Methods of disposal</b>	: 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. Contains Flammable solvent	8 3	III III	
ADN Class	1760	CORROSIVE LIQUID N.O.S. Contains Flammable solvent	8 3	III III	
IMDG Class	1760	CORROSIVE LIQUID N.O.S. Contains Flammable solvent	8 3	III III	<b>Phosphoric acid alkyl</b>
U.S. DOT Bulk	1760	CORROSIVE LIQUID N.O.S. Contains Flammable solvent	8 3	III III	<b>Phosphoric acid alkyl</b>

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

<b>Hazard symbols</b>	:	
<b>Indicator of Danger:</b>	:	
<b>Risk phrases</b>	:	Xi – Irritant (Phosphoric acid alkyl) R8 - Contact with combustible material may cause fire R36/38 - Irritating to eyes and skin R10 R36/37/38 R52/53 R67
<b>Safety phrases</b>	:	S2 S15 – Keep away from heat S16 S17 – Keep away from combustibles S29 S36/37/39
<b>Product use</b>	:	R20/22 – Harmful by inhalation and if swallowed S25/25 – Avoid contact with skin and eyes 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

<b>Full text of R-Phrases with no:</b>	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
	R36/37/38	Irritating to eyes and skin – WEAR
	R33	Danger of cumulative effects
	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
	S2	Keep out of the reach of children
<b>Text of classifications: Appearing in Section 2</b>	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

<b>Date of printing</b>	:	27/08/2018
<b>Date of issue</b>	:	27/08/2018
<b>Date of previous issue</b>	:	11/04/2016
<b>Recommended by</b>	:	B Victor – R&D and QA Manager
<b>Authorised by</b>	:	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.

*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.*