

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Generic name : Z-MUL-D
Product code : 7864

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

OLEON N.V.
Assenedestraat 2
Ertvelde, 9940 - Belgium
T +32 9 341 10 11 - F +32 9 341 10 00
sds@oleon.com - www.oleon.com

1.4. Emergency telephone number

Emergency number : 24/7 EMERGENCY NUMBER (SGS ERS; Oleon contract nr 76858)
+32 3 575 55 55 (worldwide); +1 888 765 6554 (USA tollfree)

Country	Official advisory body	Address	Emergency number	Comment
	World directory of poisons centres (Yellow Tox) WHO-OMS	Website	http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/	

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS-US labelling

No labelling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Fatty esters* (Constituent)	(CAS No.) Trade Secret	> 85	Not classified
Fatty acids* (Component)	(CAS No.) Trade Secret	< 15	Not classified

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.
First-aid measures after inhalation : Remove victim to fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact : Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.
First-aid measures after eye contact : Rinse with water. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion : Rinse mouth thoroughly with water. Call a poison center or a doctor if you feel unwell.

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4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Unlikely to cause harmful effects.

4.3. Immediate medical attention and special treatment, if necessary

No supplementary information available.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : AFFF foam. BC powder. Carbon dioxide. Dry sand. Dry chemical powder. Adapt extinguishing media to the environment.

Unsuitable extinguishing media : Solid water jet ineffective as extinguishing medium.

5.2. Specific hazards arising from the chemical

Fire hazard : DIRECT FIRE HAZARD: Combustible. INDIRECT FIRE HAZARD: Heating increases the fire hazard. Temperature above flashpoint: higher fire/explosion hazard.

Explosion hazard : No direct explosion hazard.

Reactivity : On burning: release of (carbon monoxide - carbon dioxide).

5.3. Special protective equipment and precautions for fire-fighters

Other information : No supplementary information available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Mark the danger area. Exposure to heat: have neighbourhood close doors and windows. Exposure to fire/heat: consider evacuation. Wash contaminated clothes.

6.1.1. For non-emergency personnel

Protective equipment : See "Material-Handling" to select protective clothing.

6.1.2. For emergency responders

Protective equipment : Use protective measures listed in Section 8.

6.2. Environmental precautions

Prevent soil and water pollution.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean contaminated surfaces with an excess of water and soap solution. Take up liquid spill into inert absorbent material, e.g.: dry sand/earth/vermiculite or powdered limestone.

Other information : No supplementary information available.

6.4. Reference to other sections

Handle waste materials in accordance with the provisions of Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling temperature : ≥ 10 °C above melting point

7.2. Conditions for safe storage, including any incompatibilities

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: heat sources.

Storage area : Keep container in a well-ventilated place. Store at ambient temperature. Keep out of direct sunlight. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: closing, correctly labelled, meet the legal requirements.

Packaging materials : No supplementary information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Fatty acids

Not applicable

Fatty esters

Not applicable

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8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Protective clothing. Safety glasses.

Materials for protective clothing:

GIVE GOOD RESISTANCE: nitrile rubber

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance (room temperature)	: Liquid.
Colour	: Amber to brown
Odour	: Characteristic odour Sweet odour Mild odour
Odour threshold	: No data available
pH	: ca. 5,8
Melting point	: No supplementary information available
Freezing point	: ca. -5 °C
Boiling point	: > 250 °C
Flash point	: > 150 °C (ASTM D92)
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No supplementary information available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: ca. 957,9 kg/m ³ (20°C)
Solubility	: No data available
Log Pow	: > 5
Auto-ignition temperature	: > 300 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: ca. 45 mm ² /s (40°C)
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

VOC content	: < 0,1 % (1999/13/EC; 2004/42/EC; 2010/75/EU)
Other properties	: Miscible with water. Soluble in. fuel oil and diesel. soluble in most organic solvents. Compatible with calcium.

SECTION 10: Stability and reactivity

10.1. Reactivity

On burning: release of (carbon monoxide - carbon dioxide).

10.2. Chemical stability

Stable under normal conditions.

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10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No supplementary information available.

10.5. Incompatible materials

No supplementary information available.

10.6. Hazardous decomposition products

No supplementary information available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Z-MUL-D	
LD50 oral rat	> 5000 mg/kg Non-toxic

Fatty esters	
LD50 oral rat	> 5000 mg/kg Non-toxic

Skin corrosion/irritation : Not classified

pH: ca. 5,8

Serious eye damage/irritation : Not classified

pH: ca. 5,8

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Symptoms/effects : Unlikely to cause harmful effects.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : According to literature: no environmental hazard.

Ecology - air : No supplementary information available.

Ecology - water : No bioaccumulation data available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Z-MUL-D	
Log Pow	> 5

Fatty esters	
Log Pow	> 5

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

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Other information : No supplementary information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) : No supplementary information available.
Ecology - waste materials : Do not discharge into drains or the environment. Remove to an authorized waste treatment plant.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Other information : No supplementary information available.

Transportation of Dangerous Goods

Transport by sea

Class (IMDG) : -

Air transport

Class (IATA) : Not subject

SECTION 15: Regulatory information

15.1. US Federal regulations

Z-MUL-D

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Fatty esters

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Z-MUL-D

Listed on the Canadian DSL (Domestic Substances List)

Fatty esters

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Z-MUL-D

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Fatty esters

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Z-MUL-D

Listed on ECST (Existing Chemical Substances Inventory of Taiwan)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)

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Fatty esters

Listed on ECST (Existing Chemical Substances Inventory of Taiwan)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on the Korean ECL (Existing Chemicals List)

15.3. US State regulations

Fatty esters

U.S. - California - Proposition 65 - Other information	California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm
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SECTION 16: Other information

Revision date : 03/23/2017
Training advice : No supplementary information available.
Other information : No supplementary information available.

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product