

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: OLEO-MAC 4T M.O.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Engine oil

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Supplier EMAK S.p.A.
Via Fermi 4
42011 BAGNOLO IN PIANO (RE) - ITALY

Telephone: +39 0522 956611 (OFFICE-DESK)

Fax: +39 0522 951555

E-mail: schedesicurezza@emakgroup.net

1.4 Emergency

telephone number:

Country	Organisation	Address	Phone, e-mail, website
United Kingdom	National Poisons Information Service (NPIS)	National Poisons Information Service (NPIS) Email: director.birmingham.unit@npis.org	Email: director.birmingham.unit@npis.org Website: http://www.npis.org/
Ireland	Beaumont Hospital - National Poisons Information Centre	Beaumont Road, Dublin 9,	Tel: +353 1 8092566 Email: npicdublin@beaumont.ie Website: www.poisons.ie

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

|| The product has not been classified as hazardous, but needs to be labelled according to regulation (EU) 1272/2008 (CLP).

Classification according to Directive 67/548/EEC or 1999/45/EC as amended.

The product is not classified according to Directive 67/548/EEC or Directive 1999/45/EC.

Hazard summary

Physical Hazards: No data available

2.2 Label Elements

EUH208: Contains Ca Sulfonate. May produce an allergic reaction.

|| EUH210: Safety data sheet available on request.

2.3 Other hazards:

By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Mixture containing severely refined base oils and additives

Chemical name	Concentration *	Identifier	REACH Registration No.	Notes
Polyolefin amide alkenamide	1,00 - <5,00%	Polymer		
ZnDTP	0,10 - <1,00%	272-028-3	01-2119657973-23	
Ca Sulfonate	0,10 - <1,00%	Polymer		

*All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classification	
Polyolefin amide alkenamide	DSD:	R53
	CLP:	Aquatic Chronic 4; H413
ZnDTP	DSD:	Xi; R41 N; R51/53
	CLP:	Eye Dam. 1; H318, Aquatic Chronic 2; H411
Ca Sulfonate	DSD:	Xi; R43 R53
	CLP:	Aquatic Chronic 4; H413, Skin Sens. 1; H317

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

The full text for all R-phrases and H-statements is displayed in section 16.

SECTION 4: First aid measures

General: Change clothes and shoes contaminated or soaked by the product. Never put rags contaminated by the product into cloth-pockets.

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.**Eye contact:** Promptly wash eyes with plenty of water while lifting the eye lids.**Skin Contact:** Wash with soap and water. The product is not skin irritating.**Ingestion:** Rinse mouth thoroughly.**4.2 Most important symptoms and effects, both acute and delayed:** May cause skin and eye irritation.

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4.3 Indication of any immediate medical attention and special treatment needed

Hazards:	No data available
Treatment:	Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: CO₂, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable tensides added.

Unsuitable extinguishing media: Water with a full water jet

5.2 Special hazards arising from the substance or mixture: During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special firefighting procedures: No data available

Special protective equipment for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Not required.

6.2 Environmental Precautions: Avoid release to the environment. Environmental manager must be informed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up: Scrape up spillage or absorb with absorbing material. Stop the flow of material, if this is without risk. Dispose of the material collected according to regulations.

6.4 Reference to other sections: See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling. See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling: Provide adequate ventilation. Observe good industrial hygiene practices. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.

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7.2 Conditions for safe storage including any incompatibilities: Local regulations concerning handling and storage of water polluting products have to be followed.

7.3 Specific end use(s): not applicable

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits None of the components have assigned exposure limits

8.2 Exposure controls

Appropriate engineering controls: No data available

Individual protection measures, such as personal protective equipment

General information: Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil product.

Eye/face protection: Safety glasses (EN 166) recommended during refilling.

Skin protection

Hand Protection: Nitrile butyl rubber (NBR). Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Other: Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor. Avoid breathing vapour/aerosol.

Thermal hazards: No data available.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid
Color: Colorless
Odor: No data available

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Odor Threshold:	No data available
pH:	Not applicable
Freezing point:	-31 °C
Boiling Point:	No data available
Flash Point:	No data available
Evaporation Rate:	No data available
Flammability (solid, gas):	No data available
Flammability Limit - Upper (%)-:	No data available
Flammability Limit - Lower (%)-:	No data available
Vapor pressure:	No data available
Vapor density (air=1):	No data available
Density:	0,87 g/cm ³ (20 °C)
Solubility(ies)	
Solubility in Water:	No data available
Solubility (other):	No data available
Partition coefficient (n-octanol/water):	No data available
Autoignition Temperature:	No data available
Decomposition Temperature:	No data available
Kinematic viscosity:	80 mm ² /s (40 °C)
Explosive properties:	No data available
Oxidizing properties:	No data available
9.2 OTHER INFORMATION	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity:	Stable under normal temperature conditions and recommended use.
10.2 Chemical Stability:	No data available
10.3 Possibility of Hazardous Reactions:	None under normal conditions
10.4 Conditions to Avoid:	Avoid heat or contamination.
10.5 Incompatible Materials:	Strong oxidizing substances. Strong acids. Strong bases.
10.6 Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Polyolefin amide No data available

alkenamide

ZnDTP LD 50 (Rat): > 2.001 mg/kg

Ca Sulfonate No data available

Dermal:

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Polyolefin amide No data available

alkenamide

ZnDTP LD 50 (Rat): > 2.001 mg/kg

Ca Sulfonate No data available

Inhalation :

Product: Not classified for acute toxicity based on available data.

Specified substance(s)

Polyolefin amide No data available

alkenamide

ZnDTP No data available

Ca Sulfonate No data available

Repeated dose toxicity:

Product: No data available

Specified substance(s)

Polyolefin amide No data available

alkenamide

ZnDTP No data available

Ca Sulfonate No data available

Skin Corrosion/Irritation:

Product: No data available

Specified substance(s)

Polyolefin amide No data available

alkenamide

ZnDTP No data available

Ca Sulfonate No data available

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Serious Eye Damage/Eye Irritation:

Product: No data available

Specified substance(s)

Polyolefin amide alkenamide No data available

ZnDTP No data available

Ca Sulfonate No data available

Respiratory or Skin Sensitization:

Product: No data available

Specified substance(s)

Polyolefin amide alkenamide No data available

ZnDTP No data available

Ca Sulfonate No data available

Germ Cell Mutagenicity

In vitro:

Product: No data available

Specified substance(s)

Polyolefin amide alkenamide No data available

ZnDTP No data available

Ca Sulfonate No data available

In vivo:

Product: No data available

Specified substance(s)

Polyolefin amide alkenamide No data available

ZnDTP No data available

Ca Sulfonate No data available

Carcinogenicity:

Product: No data available

Specified substance(s)

Polyolefin amide alkenamide No data available

ZnDTP No data available

Ca Sulfonate No data available

Reproductive toxicity:

Product: No data available

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Specified substance(s)

Polyolefin amide No data available
alkenamide
ZnDTP No data available
Ca Sulfonate No data available

Specific Target Organ Toxicity - Single Exposure:

Product: No data available

Specified substance(s)

Polyolefin amide No data available
alkenamide
ZnDTP No data available
Ca Sulfonate No data available

Specific Target Organ Toxicity - Repeated Exposure:

Product: No data available

Specified substance(s)

Polyolefin amide No data available
alkenamide
ZnDTP No data available
Ca Sulfonate No data available

Aspiration Hazard:

Product: No data available

Specified substance(s)

Polyolefin amide No data available
alkenamide
ZnDTP No data available
Ca Sulfonate No data available

Other Adverse Effects: No data available

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity:

Fish:

Product: No data available

Specified substance(s)

Polyolefin amide No data available
alkenamide
ZnDTP No data available
Ca Sulfonate No data available

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Aquatic Invertebrates:

Product: No data available

Specified substance(s)

Polyolefin amide alkenamide No data available

ZnDTP No data available

Ca Sulfonate No data available

Chronic Toxicity:

Fish:

Product: No data available

Specified substance(s)

Polyolefin amide alkenamide No data available

ZnDTP No data available

Ca Sulfonate No data available

Aquatic Invertebrates:

Product: No data available

Specified substance(s)

Polyolefin amide alkenamide No data available

ZnDTP No data available

Ca Sulfonate No data available

Toxicity to Aquatic Plants:

Product: No data available

Specified substance(s)

Polyolefin amide alkenamide No data available

ZnDTP No data available

Ca Sulfonate No data available

12.2 Persistence and Degradability

Biodegradation

Product: No data available

Specified substance(s)

Polyolefin amide alkenamide No data available

ZnDTP No data available

Ca Sulfonate No data available

12.3 Bioaccumulative Potential

Product: No data available

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Specified substance(s)

Polyolefin amide alkenamide	No data available
ZnDTP	No data available
Ca Sulfonate	No data available

12.4 Mobility in Soil: No data available**Known or predicted distribution to environmental compartments**

Polyolefin amide alkenamide	No data available
ZnDTP	No data available
Ca Sulfonate	No data available

12.5 Results of PBT and vPvB assessment:

	No data available
Polyolefin amide alkenamide	No data available
ZnDTP	No data available
Ca Sulfonate	No data available

12.6 Other Adverse Effects: No data available**Water Hazard Class (WGK):** WGK 2: water-endangering

SECTION 13: Disposal considerations

13.1 Waste treatment methods**General information:** Dispose in accordance with all applicable regulations.**Disposal methods:** Do not empty into drains; dispose of this material and its container in a safe way. When storing used products, ensure that the waste categories and mixing instructions are observed.**European Waste Codes** 13 02 05*: mineral-based non-chlorinated engine, gear and lubricating oils.

SECTION 14: Transport information

ADR/RID

14.1 UN Number:	-
14.2 UN Proper Shipping Name:	-
14.3 Transport Hazard Class(es)	
Class:	Non-dangerous goods
Label(s):	-
Hazard No. (ADR):	-
Tunnel restriction code:	-

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- 14.4 Packing Group: -
- 14.5 Environmental hazards: -
- 14.6 Special precautions for user: -

ADN

- 14.1 UN Number: -
- 14.2 UN Proper Shipping Name: -
- 14.3 Transport Hazard Class(es)
 - Class: Non-dangerous goods
 - Label(s): -
- 14.4 Packing Group: -
- 14.5 Environmental hazards: -
- 14.6 Special precautions for user: -

IMDG

- 14.1 UN Number: -
- 14.2 UN Proper Shipping Name: -
- 14.3 Transport Hazard Class(es)
 - Class: Non-dangerous goods
 - Label(s): -
 - EmS No.: -
- 14.4 Packing Group: -
- 14.5 Environmental hazards: -
- 14.6 Special precautions for user: -

IATA

- 14.1 UN Number: -
- 14.2 Proper Shipping Name: -
- 14.3 Transport Hazard Class(es)
 - Class: Non-dangerous goods
 - Label(s): -
- 14.4 Packing Group: -
- 14.5 Environmental hazards: -
- 14.6 Special precautions for user: -
- 14.7 **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** not applicable

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment

Wording of the R-phrases and H-statements in section 2 and 3

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.

Training information: Follow training instructions when handling this material.

Other information: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

Revision Date: 10.03.2015

Disclaimer: The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets.

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