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IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

Product identifier

Trade name: AREOL GEARLUBE EP 75W90

Article number: 75W90AR083

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

Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services,

craftsmen)

Product category PC24: Lubricants, greases, release products

Process category:

PROC8a Transfer of substance or preparation (charging/discharging) from /to vessels/large containers at non-dedicated facilities

PROC8b Transfer of substance or preparation (charging/discharging) from /to vessels/large containers at dedicated facilities

PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC20 Heat and pressure transfer fluids in dispersive, professional use but closed systems

Environmental release category:

ERC4 Industrial use of processing aids in processes and products, not becoming part of articles

ERC7 Industrial use of substances in closed systems

ERC9a Wide dispersive indoor use of substances in closed systems

ERC9b Wide dispersive outdoor use of substances in closed systems

Application of the substance / the mixture: Transmission oil

Details of the supplier of the safety data sheet · Manufacturer/Supplier:

Vroman NV

Oudenaardestraat 49. 8570 Vichte. Belgium

Tel.: +32 56 72 62 29

ATH&S GmbH.

Broenninghauser Street. 33729 Bielefeld. Germany

Tel: +49 (0)521/5535919 Fax. +49 (0)521/5535923 Tel. +49 (0)521/5535938

Further information obtainable from: Product safety department:

safety@areollub.com

Emergency telephone number:

+49 521 55 35 938 (Monday - Friday 9.00-18.00)



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2 HAZARDS I

HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

Not applicable.

Information concerning particular hazards for human and environment:

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2

Label elements

Labelling according to Regulation (EC) No 1272/2008: Void

Hazard pictograms: Void

Signal word: Void

Hazard statements: Void

Additional information:

EUH208 Contains Reaction products of bis (4-methylpentan - 2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched). May produce an allergic reaction. EUH210 Safety data sheet available on request.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

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COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Dangerous components:

CAS: 72623-87-1 EINECS: 276-738-4 Reg.nr.: 01-2119474889-13	Lubricating oils (petroleum), C20-50, hydrotreated neutraloil-based Asp. Tox. 1, H304	25-50%
	Interchangeable low viscosity base oil (<20,5 cSt 40 °C) *	2,5-10%
	♦ Asp. Tox. 1, H304	
EC number: 931-384-6 Reg.nr.: 01-2119493620-38	Reaction products of bis (4 - methylpentan - 2 -yl) 1- 2.5% dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched) X Xn R22; Xi R41; Xi R43; N R51/53 Eye Dam. 1, H318; Aquatic Chronic 2, H411;	1-2,5%
	1 Acute Tox. 4, H302; Skin Sens. 1, H317	
CAS: 112-90-3 EINECS: 204-015-5	(Z)-octadec-9-enylamine0.1-1.0% ♀ C R34; X Xn R22-48/22-65; X Xi R37-41; ♠ N R50/53	0,1-1,0%
	 ♦ STOT RE 2, H373; Asp. Tox. 1, H304; ♦ Skin Corr. 1B, H314; Eye Dam. 1, H318; ♦ Aquatic Acute 1, H400; Acute Tox. 4, H302; STOT SE 3, H335 	

Additional information:

* Contains one or more of the following CAS-numbers: 64741-88-4, 64741-89-5, 64741-95-3, 64741-96-4, 64741-97-5, 64742-01-4, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9, 64742-57-0, 64742-58-1, 64742-62-7, 64742-65-0, 64742-71-8, 68037-01-4, 72623-83-7, 72623-85-9, 72623-86-0, 72623-87-1, 74869-22-0, 8042-47-5, 848301-69-9.

For the wording of the listed risk phrases refer to section 16.

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FIRST AID MEASURES

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints. **After skin contact:** Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water. **After swallowing:** Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed If swallowed or in case of vomiting, danger of entering the lungs.



FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents:

CO2, dry chemical, or foam. Water can be used to cool and protect exposed material.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture:

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

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ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Wear protective clothing.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Remove from the water surface (e.g. skim or suck off).

6.4 Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.



HANDLING AND STORAGE

7.1 Precautions for safe handling No special measures required.

Avoid the formation of oil haze.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities ·

Storage:

Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end use(s)

No further relevant information available.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities:

No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter. Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Respiratory protection: Not required.

Protection of hands:



Wear gloves for the protection against chemicals according to EN 374.

Oil resistant gloves

Material of gloves

Nitrile rubber,

NBR PVC gloves

Neoprene gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same, but recognise that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time may be acceptable so long as appropriate maintenance and replacement regimes are followed.

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Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Goggles recommended during refilling

Body protection: Protective work clothing

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9

PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties · General Information *Appearance*:

Form: Liquid

Colour: *Light brown* **Odour:** Characteristic

Change in condition

Melting point/Melting range: Undetermined. Boiling point/Boiling range: Undetermined.

Drip point:

Pour point: -42 °C (ASTM D97)

Flash point:> 200 °C

Flammability (solid, gaseous): Not applicable. **Self-igniting:** Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits: Lower: 0.6 Vol % Upper: 7.0 Vol %

Density: 0.882 g/cmi (15 °C)

Solubility in / Miscibility with water: Not miscible or difficult to mix.

Partition coefficient (n-octanol/water): Not determined.

Viscosity: 87,9 mm//s (40 °C) - ASTM D445

Solvent content:

Organic solvents: 0.0 %

9.2 Other informationNo further relevant information available.

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10 STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

To avoid thermal decomposition do not overheat.

- 10.3 Possibility of hazardous reactions: Reacts with strong oxidising agents.
- **10.4 Conditions to avoid:** No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

11 TOXICOLOGICAL INFORMATION

Information on toxicological effects
Acute toxicity:
Primary irritant effect:
on the skin: No irritant effect.
on the eye: No irritating effect.

Sensitisation: No sensitising effects known.

Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

Sensitisation For respiratory and skin sensitisation: Not expected to be a sensitiser.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.

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12 ECOLOGICAL INFORMATION

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12.1 Toxicity

Aquatic toxicity:

EC50 (21d) >100 mg/L (daphnia) (OECD 211)

NOEC 100 mg/L (daphnia)

12.2 Persistence and degradability: No further relevant information available.

Other information: The product is difficultly biodegradable.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Ecotoxical effects:

Remark: This material is not expected to be harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

12.6 Other adverse effects:

No further relevant information available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage.

Do not allow product to reach sewage system.

European waste catalogue

13 02 05* mineral-based non-chlorinated engine, gear and lubricating oils

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

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TRANSPORT INFORMATION

Trade name
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UN-Number ADR/ADN, ADN, IMDG, IATA	Void
UN proper shipping name ADR/ADN, ADN, IMDG, IATA	Void
Transport hazard class(es) ADR/ADN, ADN, IMDG,IATA Class	Void
Packing group ADR/ADN, IMDG, IATA	Void
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
UN "Model Regulation"	_

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REGULATORY INFORMATION

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

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16 OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

R22 Harmful if swallowed.

R34 Causes burns.

R37 Irritating to respiratory system.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

Department issuing MSDS: Product safety department.

Contact: Product safety department

Abbreviations and acronyms:

RID: Ruglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord europ*ŭ*en sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 **STOT RE 2:** Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1 **Aquatic Chronic 2:** Hazardous to the aquatic environment - Chronic Hazard, Category 2

Sources: 67/548/EEC; 99/45/EEC; EC/453-2010