



MAROIL S.R.L.

Revision nr. 6

Dated 12/12/2023

MTF Synchronizer & Gear Protection 75W-90

Printed on 12/12/2023

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Replaced revision:5 (Printed on: 18/05/2023)

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code: **M 429**
Product name: **MTF Synchronizer & Gear Protection 75W-90**

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

Intended use: **Lubricating oil for manual transmissions**

1.3. Details of the supplier of the safety data sheet

Name: **MAROIL S.R.L.**
Full address: **LOC. PONTE ALLA CILIEGIA**
District and Country: **55011 MARGINONE ALTOPASCIO (LU)
ITALIA**
Tel. **0583/28731**
Fax **0583/286542**

e-mail address of the competent person responsible for the Safety Data Sheet: **msds@bardahl.it**

1.4. Emergency telephone number

For urgent inquiries refer to:
Numeri telefonici dei principali Centri Antiveleni italiani (attivi 24/24 ore)
Centro Antiveleni di Pavia 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia)
Centro Antiveleni di Milano 02 66101029 (CAV Ospedale Niguarda Ca' Granda - Milano)
Centro Antiveleni di Bergamo 800 883300 (CAV Ospedali Riuniti - Bergamo)
Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale Careggi - Firenze)
Centro Antiveleni di Roma 06 3054343 (CAV Policlinico Gemelli - Roma)
Centro Antiveleni di Roma 06 49978000 (CAV Policlinico Umberto I - Roma)
Centro Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Hazardous to the aquatic environment, chronic toxicity, category 3 H412 Harmful to aquatic life with long lasting effects.

**MTF Synchronizer & Gear Protection 75W-90****2.2. Label elements**

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements:

H412 Harmful to aquatic life with long lasting effects.

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.

Precautionary statements:

P501 Dispose of contents / container in accordance with national regulations.

P273 Avoid release to the environment.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

SECTION 3. Composition/information on ingredients**3.2. Mixtures**

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
lubricating oils (petroleum), C20-50, based on neutral oil INDEX 649-483-00-5 EC 276-738-4 CAS 72623-87-1 REACH Reg. 01-2119474889-13	$10 \leq x < 11,5$	Asp. Tox. 1 H304, Classification note according to Annex VI to the CLP Regulation: L
distillates (petroleum), hydrotreated heavy paraffinic INDEX - EC 265-157-1	$3,5 \leq x < 4$	Asp. Tox. 1 H304, Classification note according to Annex VI to the CLP Regulation: L



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CAS 64742-54-7

REACH Reg. 01-2119484627-25

distillates (petroleum) solvent-dewaxed light paraffinic

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 $3 \leq x < 3,5$

Asp. Tox. 1 H304, Classification note according to Annex VI to the CLP Regulation: L

EC 265-159-2

CAS 64742-56-9

REACH Reg. 01-2119480132-48

distillates (petroleum), solvent-dewaxed heavy paraffinic

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 $3 \leq x < 3,5$

Asp. Tox. 1 H304, Classification note according to Annex VI to the CLP Regulation: L

EC 265-169-7

CAS 64742-65-0

REACH Reg. 01-2119471299-27

distillates (petroleum), hydrotreated heavy paraffinic

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 $2 \leq x < 2,5$

Substance with a community workplace exposure limit.

EC 265-157-1

CAS 64742-54-7

REACH Reg. 01-2119484627-25

Distillates (petroleum), solvent-refined heavy paraffinic

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 $0,607 \leq x < 0,707$

Classification note according to Annex VI to the CLP Regulation: L

EC 265-090-8

CAS 64741-88-4

REACH Reg. 01-2119488706-23

distillates (petroleum), solvent-dewaxed heavy paraffinic

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 $0,607 \leq x < 0,707$

Asp. Tox. 1 H304, Classification note according to Annex VI to the CLP Regulation: L

EC 265-169-7

CAS 64742-65-0

REACH Reg. 01-2119471299-27

Reaction products of bis(4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

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 $0,607 \leq x < 0,707$

Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1B H317, Aquatic Chronic 2 H411

EC 931-384-6

CAS -

Skin Sens. 1B H317: $\geq 9,39\%$, Eye Irrit. 2 H319: $\geq 50\%$

REACH Reg. 01-2119493620-38

C16-18-(even numbered, saturated and unsaturated)-alkylamines

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 $0,2 \leq x < 0,25$

Acute Tox. 4 H302, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=10

EC 627-034-4

CAS -

LD50 Oral: 1689 mg/kg



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REACH Reg. 01-2119473797-19

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

4.3. Indication of any immediate medical attention and special treatment needed

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.



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Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
EST	Eesti	Ohtlike kemikaalide ja neid sisaldavate materjalide kasutamise töötavishoiu ja tööohutuse nõuded ning töökeskkonna keemiliste ohutegurite piirnormid [RT I, 17.10.2019, 1 - jõust. 17.01.2020]
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÄRDSDMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή



HRV	Hrvatska	μεταλλογόνους παράγοντες κατά την εργασία» Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemičkim na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
LVA	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

distillates (petroleum), hydrotreated heavy paraffinic**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m ³	ppm	mg/m ³	ppm	
TLV	BGR	5				
TLV	CZE	5		10		
AGW	DEU	5				
TLV	DNK	1				
VLA	ESP	5		10		
TLV	EST	5				
VLEP	FRA	5				
HTP	FIN	5				
TLV	GRC	5				
GVI/KGVI	HRV	5				
VLEP	ITA	5				
RV	LVA	5				
VLE	PRT	5		10		
NDS/NDSCh	POL	5				
NGV/KGV	SWE	1		3		
NPEL	SVK	1	5	3	15	
MV	SVN	5				
WEL	GBR	5				
OEL	EU	5				

Reaction products of bis(4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

Predicted no-effect concentration - PNEC



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Normal value in fresh water 0,001 mg/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,25 mg/kg bw/d				
Inhalation				2,2 mg/m3				8,56 mg/m3
Skin				6,25 mg/kg bw/d				12,5 mg/kg bw/d

distillates (petroleum), solvent-dewaxed heavy paraffinic

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	5		10		
AGW	DEU	5				
TLV	DNK	1				
VLA	ESP	5		10		
TLV	EST	5		10		
VLEP	FRA	5		10		
HTP	FIN	5				
TLV	GRC	5				
GVI/KGVI	HRV	5		10		
VLEP	ITA	5		10		
RV	LVA	5				
TGG	NLD	5				
VLE	PRT	5		10		
NDS/NDSch	POL	5				
NGV/KGV	SWE	1		3		
NPEL	SVK	1		3		
MV	SVN	5		10		
WEL	GBR	5		10		
OEL	EU	5		10		

Distillates (petroleum), solvent-refined heavy paraffinic

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	5		10		
TLV	DNK	1				
VLA	ESP	5		10		
HTP	FIN	5				
TLV	GRC	5				
RV	LVA	5				



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TGG	NLD	5			
VLE	PRT	5			
NDS/NDSch	POL	5			
NGV/KGV	SWE	1		3	
NPEL	SVK	1	5	3	15
OEL	EU	5			10

C16-18-(even numbered, saturated and unsaturated)-alkylamines

Predicted no-effect concentration - PNEC

Normal value in fresh water 0,26 µg/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,04 mg/kg				
Skin								0,09 mg/kg

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

**MTF Synchronizer & Gear Protection 75W-90****ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Properties	Value	Information
Appearance	liquid	
Colour	yellowish	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	186 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	
Kinematic viscosity	99 cSt	
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	0,873 kg/l	
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2. Other information**9.2.1. Information with regard to physical hazard classes**

Information not available

9.2.2. Other safety characteristics

Viscosita a 40°C	99,6 cSt
Viscosità a 100°C	16,04 cSt
Punto di scorrimento	-45°C
Consistenza	Non pertinente
Punto di gocciolamento	Non pertinente

SECTION 10. Stability and reactivity



10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

**MTF Synchronizer & Gear Protection 75W-90**

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: Not classified (no significant component)
ATE (Oral) of the mixture: Not classified (no significant component)
ATE (Dermal) of the mixture: Not classified (no significant component)

Lubricating oils (petroleum), C20-50, based on neutral oil

LD50 (Dermal): > 2000 mg/kg Coniglio - OECD Guideline 402
LD50 (Oral): > 5000 mg/kg Ratto - OECD Guideline 401
LC50 (Inhalation vapours): > 5,53 mg/l/4h Ratto - OECD Guideline 403

distillates (petroleum), hydrotreated heavy paraffinic

LD50 (Dermal): > 5000 mg/kg Coniglio - OECD Guideline 402
LD50 (Oral): > 5000 mg/kg Ratto - OECD Guideline 401
LC50 (Inhalation mists/powders): > 5 mg/l/4h Rat - OECD Guideline 403

distillates (petroleum), solvent-dewaxed heavy paraffinic

LD50 (Dermal): > 5000 mg/kg Coniglio - OECD Guideline 402
LD50 (Oral): > 5000 mg/kg Ratto - OECD Guideline 401
LC50 (Inhalation mists/powders): > 5 mg/l/4h Rat - OECD Guideline 403

distillates (petroleum) solvent-dewaxed light paraffinic

LD50 (Dermal): > 5000 mg/kg OECD Guideline 402 - Ratto
LD50 (Oral): > 5000 mg/kg OECD Guideline 401 - Ratto
LC50 (Inhalation mists/powders): > 5,53 mg/l/4h Rat - OECD Guideline 403

distillates (petroleum), hydrotreated heavy paraffinic

LD50 (Dermal): > 5000 mg/kg Coniglio
LD50 (Oral): > 5000 mg/kg Ratto
LC50 (Inhalation vapours): > 5,53 mg/l/4h Ratto

Reaction products of bis(4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

LD50 (Oral): 2000 mg/kg Rat - Equivalente o similare a OECD Guideline 401

distillates (petroleum), solvent-dewaxed heavy paraffinic

LD50 (Dermal): > 5000 mg/kg Rabbit - OECD Guideline 402
LD50 (Oral): > 5000 mg/kg Ratto - OECD Guideline 401
LC50 (Inhalation vapours): > 5,53 mg/l/4h Ratto - OECD Guideline 403

Distillates (petroleum), solvent-refined heavy paraffinic

LD50 (Dermal): > 2000 mg/kg Rabbit
LD50 (Oral): > 5000 mg/kg Rat



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LC50 (Inhalation vapours): > 5,53 mg/l/4h Rat

C16-18-(even numbered, saturated and unsaturated)-alkylamines

LD50 (Oral): 1689 mg/kg Ratto

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

Reaction products of bis(4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

**MTF Synchronizer & Gear Protection 75W-90**

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: 99 cSt

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

distillates (petroleum), hydrotreated heavy paraffinic

EC50 - for Crustacea

> 10000 mg/l/48h Daphnia magna - Equivalente o similare a OECD Guideline 202

Chronic NOEC for Crustacea

10 mg/l/21d Daphnia magna - Equivalente o similare a OECD Guideline 211

distillates (petroleum), solvent-dewaxed heavy paraffinic

EC50 - for Crustacea

> 10000 mg/l/48h Daphnia magna - Equivalente o similare a OECD Guideline 202

Chronic NOEC for Crustacea

10 mg/l/21d Daphnia magna - Equivalente o similare a OECD Guideline 211

distillates (petroleum) solvent-dewaxed light paraffinic

EC50 - for Crustacea

> 10000 mg/l/48h Daphnia magna - Equivalente o similare a OECD Guideline 202

Chronic NOEC for Crustacea

10 mg/l/21d Daphnia magna - Equivalente o similare a OECD Guideline 211

Reaction products of bis(4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

EC50 - for Algae / Aquatic Plants

6,4 mg/l/96h OECD Guideline 201 - Pseudokirchneriella subcapitata

Chronic NOEC for Algae / Aquatic Plants

1,7 mg/l OECD Guideline 201 - Pseudokirchneriella subcapitata

C16-18-(even numbered, saturated and unsaturated)-alkylamines

LC50 - for Fish

0,06 mg/l/96h Equivalente o similare a EPA OPPTS 850.1085 - Pimephales promelas

EC50 - for Crustacea

0,011 mg/l/48h OECD Guideline 202 - Daphnia magna

EC50 - for Algae / Aquatic Plants

0,46 mg/l/72h Equivalente o similare a OECD Guideline 201 - Desmodesmus subspicatus

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EC10 for Algae / Aquatic Plants	0,029 mg/l/72h Alghe
Chronic NOEC for Crustacea	0,013 mg/l OECD Guideline 211 - Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	0,15 mg/l/72h Equivalente o similare a OECD Guideline 201 - alghe

12.2. Persistence and degradability

lubricating oils (petroleum), C20-50, based on neutral oil
Entirely degradable

OECD Guideline 301 F
distillates (petroleum), hydrotreated heavy paraffinic
Entirely degradable

OECD Guideline 301 F
distillates (petroleum), solvent-dewaxed heavy paraffinic
Entirely degradable

OECD Guideline 301 F
distillates (petroleum) solvent-dewaxed light paraffinic
Entirely degradable

OECD Guideline 301 F
distillates (petroleum), hydrotreated heavy paraffinic
NOT rapidly degradable

OECD 301F - 31 % - 28 giorni
distillates (petroleum), solvent-dewaxed heavy paraffinic
NOT rapidly degradable

OECD 301F - 31 % - 28 giorni
Reaction products of bis(4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)
NOT rapidly degradable

OECD 301B - 25 % - 28 giorni
C16-18-(even numbered, saturated and unsaturated)-alkylamines
Rapidly degradable
OECD 301B - 66 % - Facilmente - 28 giorni
Distillates (petroleum), solvent-refined heavy paraffinic
NOT rapidly degradable

OECD 301F - 31 % - Non facilmente - 28 giorni

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil



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Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable



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14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage \geq than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

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None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Eye Irrit. 2	Eye irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
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.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

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- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
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Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

03 / 11 / 12.