

# PRODUCT DATA SHEET GEAR OIL 75W-140

## **Description:**

High quality paraffinic base oils based EP (extreme pressure), rust and corrosion prevention with the latest technology are produced by adding a special additive package.

## **Performance Features and Benefits:**

- Prevents metal to metal contact,
- Very good thermal resistance,
- Minimum viscosity change, optimum film capability,
- Bronze alloys corrosion protection,
- Long service life,
- Economy in the cost of lubrication,
- Additive which prevents wear and extreme pressure (EP) additive, includes a gear system maintains very good fittings

## **Application:**

Cars, trucks, buses, light commercial vehicles, agricultural vehicles and machines as well as many tool in the gearbox and differential, spiral bevel, hypoid gear system used in the four seasons.

## **Performance specifications:**

API: GL-5 meet the performance specifications.

## **Typical Characteristics:**

TEST	METHOD	TYPICAL PROPERTIES
Density, g/cm3, at 15°C	ASTM D4052	0,892
Kinematic Viscosity, cSt, at 40°C	ASTM D445	180
Kinematic Viscosity, cSt, at 100°C	ASTM D445	25,5
Viscosity Index	ASTM D2270	172
Flash Point, °C, min	ASTM D92	207
Pour Point, °C, max	ASTM D97	-33

\* The values specified in the table are typical values and may vary based on production.



# GEAR OIL GL 5 SAE 75W140 Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 02/02/2004 Revision date: 30/10/2024 Supersedes version of: 25/04/2024 Version: 11.1

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

: Blend

#### **1.1. Product identifier** Product form : Mixture Product name : GEAR OIL GL 5 SAE 75W140 Product code : 2307 Type of product CMO

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

## **Relevant identified uses**

Main use category Industrial/Professional use spec

Function or use category

: Industrial use, Professional use, Consumer use : Non-dispersive use Used in closed systems : Lubricants and additives

1.3. Details of the supplier of the safety data sheet

FACO PETROL KİMYA SANAYİ DIŞ TİCARET LTD. ŞTİ. Center Office: Siteler Mh. 492 Sk. No: 1/A My Vista Smart Aliağa/İZMİR/TÜRKİYE info@cosmomotoroil.com / www.cosmomotoroil.com Phone: +90 552 222 6766

#### 1.4. Emergency telephone number

Emergency number

: +90 552 222 6766

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090 Msida	112 +356 2545 6508	
Sweden	Giftinformationscentralen	Box 60 500 171 76 Stockholm	112 – begär Giftinformation +46 10 456 6700 (Från utlandet)	

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazardous to the aquatic environment - Chronic Hazard, H412 Category 3

Full text of H- and EUH-statements: see section 16



#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Signal word (CLP)	: -
Hazard statements (CLP)	: H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P273 - Avoid release to the environment.
	P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements	: EUH208 - Contains Methyl methacrylate. May produce an allergic reaction.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

Comments

: The mineral oils in the product contain < 3% DMSO extract (IP 346)

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polysulphides, di-tert-Bu	CAS-No.: 68937-96-2 EC-No.: 273-103-3 REACH-no: 01-2119540515- 43	1 – 4.5	Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Phosphoric acid ester amine salt	EC-No.: 931-384-6 REACH-no: 01-2119493620- 38	0.1 – 0.9	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Methyl methacrylate	CAS-No.: 80-62-6 EC-No.: 201-297-1 EC Index-No.: 607-035-00-6	0.1 – 0.24	Flam. Liq. 2, H225 STOT SE 3, H335 Skin Irrit. 2, H315 Skin Sens. 1, H317

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Polysulphides, di-tert-Bu	CAS-No.: 68937-96-2 EC-No.: 273-103-3 REACH-no: 01-2119540515- 43	(46 ≤ C < 100) Skin Sens. 1B; H317
Phosphoric acid ester amine salt	EC-No.: 931-384-6 REACH-no: 01-2119493620- 38	(9.39 ≤ C < 100) Skin Sens. 1; H317 (50.01 ≤ C < 100) Eye Irrit. 2; H319

Full text of H- and EUH-statements: see section 16



## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Not expected to require first aid measures.</li> <li>Wash skin with mild soap and water.</li> <li>In case of eye contact, immediately rinse with clean water for 10-15 minutes.</li> <li>Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.</li> </ul>
4.2. Most important symptoms and effects	, both acute and delayed
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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

No additional information available

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Water fog. Foam. Powder. Dry chemical product.</li><li>Do not use a heavy water stream.</li></ul>	
5.2. Special hazards arising from the substa	nce or mixture	
No additional information available		
5.3. Advice for firefighters		
Precautionary measures fire Firefighting instructions Protection during firefighting	<ul> <li>Exercise caution when fighting any chemical fire.</li> <li>Use water spray or fog for cooling exposed containers.</li> <li>Do not enter fire area without proper protective equipment, including respiratory protection.</li> </ul>	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipm	nent and emergency procedures	
For non-emergency personnel Protective equipment For emergency responders Protective equipment	<ul> <li>Wear suitable protective clothing and gloves.</li> <li>Wear suitable protective clothing and gloves.</li> </ul>	
6.2. Environmental precautions		
Prevent entry to sewers and public waters. Notify auth	norities if product enters sewers or public waters.	
6.3. Methods and material for containment and cleaning up		
For containment Methods for cleaning up Other information	<ul> <li>Impound and recover large spill by mixing it with inert granular solids.</li> <li>Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr.</li> <li>Spill area may be slippery. Use suitable disposal containers.</li> </ul>	

### 6.4. Reference to other sections

No additional information available



## SECTION 7: Handling and storage

7.1 Precautions for safe handling

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Precautions for safe handling	<ul> <li>Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.</li> </ul>
Handling temperature	: < 40 °C
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Storage temperature	: ≤ 40 °C
Storage area	: Store in dry, cool, well-ventilated area.
Germany	
Storage class (LGK, TRGS 510)	: LGK 10-13 - Other combustible and non-combustible substances
7.3. Specific end use(s)	

No additional information available

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

National occupational exposure and biological limit values

GEAR OIL GL 5 LS SAE 75W140		
Belgium - Occupational Exposure Limits		
Local name	Huiles minérales (brouillards) # Olie (minerale-; nevel)	
OEL TWA	5 mg/m³	
OEL STEL	10 mg/m³	
Regulatory reference	Koninklijk besluit/Arrêté royal 02/09/2018	
Methyl methacrylate (80-62-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Methyl methacrylate	
IOEL TWA	50 ppm @8h	
IOEL STEL	100 ppm @15min	
Regulatory reference	COMMISSION DIRECTIVE 2009/161/EU	
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	208 mg/m³ @8h	
	50 ppm @8h	
MAK (OEL STEL)	416 mg/m³ @15min	
	100 ppm @15min	
Belgium - Occupational Exposure Limits		
Local name	Méthacrylate de méthyle # Methylmethacrylaat	
OEL TWA	208 mg/m³ @8h	
	50 ppm @8h	
OEL STEL	416 mg/m³ @15min	



Methyl methacrylate (80-62-6)		
	100 ppm @15min	
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021	
Bulgaria - Occupational Exposure Limits		
OEL TWA	50 ppm @8h	
OEL STEL	100 ppm @15min	
Croatia - Occupational Exposure Limits		
GVI (OEL TWA)	50 ppm @8h	
KGVI (OEL STEL)	100 ppm @15min	
Czech Republic - Occupational Exposure Limits		
PEL (OEL TWA)	50 mg/m³ @8h	
	12 ppm @8h	
NPK-P (OEL C)	150 mg/m³ @15min	
	36 ppm @15min	
Denmark - Occupational Exposure Limits		
OEL TWA	102 mg/m³ @8h	
	25 ppm @8h	
Estonia - Occupational Exposure Limits		
OEL TWA	50 ppm @8h	
OEL STEL	100 ppm @15min	
Finland - Occupational Exposure Limits		
HTP (OEL TWA)	42 mg/m³ @8h	
	10 ppm @8h	
HTP (OEL STEL)	210 mg/m³ @15min	
	50 ppm @15min	
France - Occupational Exposure Limits		
VME (OEL TWA)	205 mg/m³ @8h	
	50 ppm @8h	
VLE (OEL C/STEL)	410 mg/m³ @15min	
	100 ppm @15min	
Germany - Occupational Exposure Limits (TRGS 900)		
AGW (OEL TWA)	210 mg/m³ @8h	
	50 ppm @8h	
Greece - Occupational Exposure Limits		
OEL TWA	50 ppm @8h	
OEL STEL	100 ppm @15min	
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	208 mg/m³ @8h	



International Exposure Limits         50 ppm @h           OEL TWA         50 ppm @h           OEL STEL         100 ppm @15min           Ialy - Occupational Exposure Limits         50 ppm @th           OEL TWA         50 ppm @th           OEL TWA         50 ppm @th           OEL TWA         10 mg/m² @sh           Cell TWA         10 mg/m² @sh           Cell TWA         10 mg/m² @sh           Cell TWA         10 mg/m² @sh           Cell TWA         20 s mg/m² @sh           Cell TWA         10 mg/m² @sh           Cell TWA         20 s mg/m² @sh           TRW (OEL TWA)         20 s mg/m² @sh           TGG-Sm (OEL TWA)         20 s mg/m² @sh           TGG + Sm (OEL STEL)         41 on g/m² @sh           More Paradas - Occupational Exposure Limits         TGG + Sm (OEL TWA)           Netherlands - Occupational Exposure Limits         TGG + Sm (OEL TWA)           NDS (OEL TWA)         100 mg/m² @sh           NDS (OEL TWA)         100 mg/m² @sh           NDS (OEL TWA)         100 mg/m² @sh           OEL TWA         50 ppm @sh           OEL TWA         50 ppm @sh           OEL TWA         50 ppm @sh           OEL TWA         50 ppm @sh	Methyl methacrylate (80-62-6)		
OEL STEL         100 ppm @15min           Haly - Occupational Exposure Limits         00 ppm @15min           OEL TVA         50 ppm @15min           Latvia - Occupational Exposure Limits         00 ppm @15min           OEL TWA         10 mg/m ? @8h           Lithuania - Occupational Exposure Limits         208 mg/m ? @8h           DEL TWA         208 mg/m ? @8h           Lithuania - Occupational Exposure Limits         50 ppm @8h           TPRV (OEL STEL)         416 mg/m ? @15min           100 ppm @15min         100 ppm @15min           TGG-8u (OEL TWA)         205 mg/m ?           TGG-6u (OEL TWA)         205 mg/m ?           TGG-15min (OEL STEL)         410 mg/m ?           Poinad - Occupational Exposure Limits         700 mg/m ?           NDS (OEL TWA)         100 mg/m ?           NDS (OEL TWA)         100 mg/m ?           NDS (OEL TWA)         100 mg/m ?           OEL TWA         50 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA         100 ppm @15min           Romania - Occupational Exposure Limits         700 ppm @15min           OEL TWA         50 ppm @8h           OEL TWA         100 ppm @15min           Romania - Occupational Exposure Limits         700 ppm @15min	Ireland - Occupational Exposure Limits		
Italy - Occupational Exposure Limits         S0 ppm @8h           OEL TWA         S0 ppm @8h           OEL STEL         100 ppm @15min           Latvia - Occupational Exposure Limits         Cel TWA           OEL TWA         10 mg/m² @8h           Lithuania - Occupational Exposure Limits         208 mg/m² @8h           PRV (OEL TWA)         208 mg/m² @8h           TPRV (OEL STEL)         416 mg/m² @15min           10 mg/m² @15min         100 mg/m² @15min           Netherlands - Occupational Exposure Limits         205 mg/m²           TGG-8u (OEL TWA)         205 mg/m²           TGG-15min (OEL STEL)         410 mg/m² @8h           NDS (OEL TWA)         205 mg/m²           NDS (OEL TWA)         300 mg/m² @8h           NDS (OEL TWA)         300 mg/m² @8h           NDS (OEL TWA)         100 mg/m² @8h           NDS (OEL TWA)         300 mg/m² @15min           Poland - Occupational Exposure Limits         100 mg/m² @8h           OEL TWA         50 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA         205 mg/m² @15min           OEL TWA         205 mg/m² @15min           OEL TWA         50 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA	OEL TWA	50 ppm @8h	
OEL TWA         50 ppm @8h           OEL TWA         100 ppm @15min           LatVia - Occupational Exposure Limits         10 mg/m² @8h           Uithuania - Occupational Exposure Limits         208 mg/m² @8h           IPRV (OEL TWA)         208 mg/m² @8h           TPRV (OEL STEL)         416 mg/m² @5min           10 mg/m² @5min         100 mg/m² @5min           TGG-8u (OEL TWA)         205 mg/m²           TGG-8u (OEL TWA)         205 mg/m²           TGG-15min (OEL STEL)         410 mg/m² @5min           Poland - Occupational Exposure Limits         100 mg/m² @5min           NDS (OEL TWA)         205 mg/m²           DSG (OEL TWA)         100 mg/m² @5min           Poland - Occupational Exposure Limits         000 mg/m² @5min           PORUGAI - Occupational Exposure Limits         000 mg/m² @15min           OEL TWA         50 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA         50 ppm @15min           OEL TWA         50 ppm @15min           OEL TWA         50 ppm @8h           OEL TWA	OEL STEL	100 ppm @15min	
OEL STEL         100 ppm @ 15min           Latvia - Occupational Exposure Limits         10 mg/m <sup>3</sup> @ 8h           Lithunai - Occupational Exposure Limits         208 mg/m <sup>3</sup> @ 8h           TPRV (OEL STEL)         208 mg/m <sup>3</sup> @ 15min           100 ppm @ 15min         100 mg/m <sup>3</sup> @ 15min           TRG-8u (OEL TWA)         205 mg/m <sup>3</sup> TGG-8u (OEL TWA)         205 mg/m <sup>3</sup> TGG-8u (OEL TWA)         205 mg/m <sup>3</sup> TGG-8u (OEL TWA)         205 mg/m <sup>3</sup> TGG-15min (OEL STEL)         410 mg/m <sup>3</sup> Poland - Occupational Exposure Limits         700 mg/m <sup>3</sup> @ 15min           NDS (OEL TWA)         100 mg/m <sup>3</sup> @ 15min           Poland - Occupational Exposure Limits         700 mg/m <sup>3</sup> @ 15min           NDS (OEL TWA)         100 mg/m <sup>3</sup> @ 15min           Portugal - Occupational Exposure Limits         700 mg/m <sup>3</sup> @ 15min           OEL TWA         50 ppm @ 8h           OEL STEL         100 ppm @ 15min           OEL TWA         50 ppm @ 8h           OEL TWA         50 ppm @ 8h           OEL TWA         50 ppm @ 8h           OEL TWA         100 ppm @ 15min           OEL TWA         50 ppm @ 8h           OEL TWA         50 ppm @ 8h           OEL TWA         100 ppm @	Italy - Occupational Exposure Limits		
Latvia - Occupational Exposure Limits           OEL TWA         10 mg/m² @8h           Lithuania - Occupational Exposure Limits         208 mg/m² @8h           IPRV (OEL TWA)         208 mg/m² @15min           100 ppm @8h         100 ppm @15min           Netherlands - Occupational Exposure Limits         100 ppm @15min           TGG-8u (OEL TWA)         205 mg/m²           TGG-8u (OEL TWA)         205 mg/m²           TGG-15min (OEL STEL)         410 mg/m²           Poland - Occupational Exposure Limits         NDS           NDS (OEL TWA)         100 mg/m² @15min           Poland - Occupational Exposure Limits         NDS           NDS (OEL TWA)         100 mg/m² @15min           Poland - Occupational Exposure Limits         NDS           NDS (OEL TWA)         100 mg/m² @15min           Portugal - Occupational Exposure Limits         OEL TWA           OEL TWA         50 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA         205 mg/m² @15min           OEL TWA         205 mg/m² @15min           OEL TWA         50 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA         50 ppm @8h           OPM QUI TWA)	OEL TWA	50 ppm @8h	
OEL TWA         10 mg/m² @8h           Lithuania - Occupational Exposure Limits         208 mg/m² @8h           IPRV (OEL TWA)         208 mg/m² @15min           100 ppm @15min         100 ppm @15min           Netherlands - Occupational Exposure Limits         205 mg/m²           TGG-8u (OEL TWA)         205 mg/m²           TGG-15min (OEL STEL)         410 mg/m² @15min           Poland - Occupational Exposure Limits         100 pg/m² @15min           NDS (OEL TWA)         100 mg/m² @8h           NDSP (OEL TWA)         100 mg/m² @15min           Poland - Occupational Exposure Limits         50 ppm @8h           OEL TWA         50 ppm @8h           OEL STEL         100 ppm @15min           Portugal - Occupational Exposure Limits         50 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA         100 ppm @15min           Romania - Occupational Exposure Limits         100 ppm @15min           Storagian - Occupational Exposure Limits         50 ppm @8h           OEL TWA         50 ppm @8h           OEL STEL         100 ppm @15min           Storagian - Occupational Exposure Limits         50 ppm @8h           OEL TWA)         50 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA<	OEL STEL	100 ppm @15min	
Lithuania - Occupational Exposure Limits         208 mg/m³ @8h           IPRV (OEL TWA)         208 mg/m³ @8h           50 ppm @8h         50 ppm @8h           TPRV (OEL STEL)         416 mg/m³ @15min           100 ppm @15min         100 ppm @15min           TGG-8u (OEL TWA)         205 mg/m³           TGG-15min (OEL STEL)         410 mg/m³           Poland - Occupational Exposure Limits         410 mg/m³           NDS (OEL TWA)         100 mg/m³ @8h           NDSP (OEL C)         300 mg/m³ @15min           Poland - Occupational Exposure Limits         00 ppm @8h           OEL TWA         100 mg/m³ @8h           NDSP (OEL C)         300 mg/m³ @15min           Portugal - Occupational Exposure Limits         00 ppm @15min           OEL TWA         50 ppm @8h           OEL TWA         205 mg/m³ @8h           OEL TWA         205 mg/m³ @8h           OEL TWA         205 mg/m³ @8h           OEL TWA         205 mg/m³ @15min           Storatia - Occupational Exposure Limits         100 ppm @15min           NPHV (OEL TWA)         50 ppm @8h           OPL TWA	Latvia - Occupational Exposure Limits		
IPRV (OEL TWA)         208 mg/m³ @8h           50 ppm @8h           TPRV (OEL STEL)         416 mg/m² @15min           100 ppm @15min         100 ppm @15min           Netherlands - Occupational Exposure Limits         205 mg/m²           TGG-8u (OEL TWA)         205 mg/m²           TGG-15min (OEL STEL)         410 mg/m²           Poland - Occupational Exposure Limits         7           NDS (OEL TWA)         100 mg/m² @8h           NDSP (OEL C)         300 mg/m² @15min           Portugal - Occupational Exposure Limits         60 ppm @8h           OEL TWA         50 ppm @8h           OEL STEL         100 ppm @15min           Romania - Occupational Exposure Limits         50 ppm @8h           OEL TWA         50 ppm @8h           OEL STEL         100 ppm @15min           Romania - Occupational Exposure Limits         50 ppm @8h           OEL STEL         410 mg/m² @15min           100 ppm @15min         50 ppm @8h           OPM V(OEL TWA)         50 ppm @8h           NPHV (OEL TWA)         50 ppm @8h           NPHV (OEL STEL)         100 ppm @15min           Stovakia - Occupational Exposure Limits         50 ppm @8h           OPL TWA         50 ppm @8h           OEL STEL	OEL TWA	10 mg/m³ @8h	
50 ppn @8h           TPRV (OEL STEL)         416 mg/m² @15min           100 ppn @15min         100 ppm @15min           Netherlands - Occupational Exposure Limits         205 mg/m²           TGG-8u (OEL TWA)         205 mg/m²           Poland - Occupational Exposure Limits         410 mg/m²           NDS (OEL TWA)         100 mg/m² @8h           NDS (OEL TWA)         100 mg/m² @8h           OS (OEL TWA)         100 mg/m² @8h           OS (OEL TWA)         100 mg/m² @8h           OEL TWA         50 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA         100 ppm @15min           Polanda - Occupational Exposure Limits         50 ppm @8h           OEL TWA         100 ppm @15min           Slovakia - Occupational Exposure Limits         100 ppm @15min           NPHV (OEL TWA)         50 ppm @8h           NPHV (OEL TWA)         50 ppm @8h           OEL TWA         210 mg/m² @8h           Slovakia - Occupational Exposure Limits         100 ppm @15min           Slovenia - Occupational Exposure Limits         50 pp	Lithuania - Occupational Exposure Limits		
TPRV (OEL STEL)         416 mg/m³ @ 15min           Netherlands - Occupational Exposure Limits         205 mg/m³           TGG-8u (OEL TWA)         205 mg/m³           TGG-15min (OEL STEL)         410 mg/m³           Poland - Occupational Exposure Limits         100 mg/m³ @ 45min           NDS (OEL TWA)         100 mg/m³ @ 45min           Portugal - Occupational Exposure Limits         000 mg/m³ @ 15min           Portugal - Occupational Exposure Limits         50 ppm @ 8h           OEL TWA         50 ppm @ 45min           Romania - Occupational Exposure Limits         50 ppm @ 8h           OEL TWA         205 mg/m³ @ 45min           OEL TWA         50 ppm @ 8h           OEL TWA         100 ppm @ 15min           Romania - Occupational Exposure Limits         100 ppm @ 15min           OEL TWA         205 mg/m³ @ 45min           OEL TWA         100 ppm @ 15min           Slovakia - Occupational Exposure Limits         100 ppm @ 15min           NPHV (OEL TWA)         50 ppm @ 8h           NPHV (OEL TWA)         50 ppm @ 8h           OEL TWA         210 mg/m³ @ 45min           OEL TWA         210 mg/m³ @ 45min           OEL TWA         210 mg/m³ @ 45min           OEL TWA         210 mg/m³ @ 45min <t< td=""><td>IPRV (OEL TWA)</td><td>208 mg/m³ @8h</td></t<>	IPRV (OEL TWA)	208 mg/m³ @8h	
International Exposure Limits           TGG-8u (OEL TWA)         205 mg/m³           TGG-15min (OEL STEL)         410 mg/m³           Poland - Occupational Exposure Limits         100 mg/m³ @8h           NDS (OEL TWA)         100 mg/m³ @15min           Portugal - Occupational Exposure Limits         00 ppm @8h           OEL TWA         50 ppm @8h           OEL STEL         100 ppm @15min           Romania - Occupational Exposure Limits         00 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA         100 ppm @15min           Romania - Occupational Exposure Limits         00 ppm @8h           OEL TWA         205 mg/m³ @8h           OEL TWA         100 ppm @15min           Stovakia - Occupational Exposure Limits         00 ppm @8h           NPHV (OEL TWA)         50 ppm @8h           NPHV (OEL TWA)         50 ppm @8h           NPHV (OEL STEL)         100 ppm @15min           Stovakia - Occupational Exposure Limits         00 ppm @8h           OEL TWA         20 mg/m³ @15min           Stovakia - Occupational Exposure Limits         00 ppm @8h		50 ppm @8h	
Netherlands - Occupational Exposure Limits         205 mg/m <sup>3</sup> TGG-8u (OEL TWA)         205 mg/m <sup>3</sup> TGG-15min (OEL STEL)         410 mg/m <sup>3</sup> Poland - Occupational Exposure Limits            NDS (OEL TWA)         100 mg/m <sup>3</sup> @th           NDS (OEL TWA)         100 mg/m <sup>3</sup> @th           NDS (OEL TWA)         000 mg/m <sup>3</sup> @th           NDSP (OEL C)         300 mg/m <sup>3</sup> @th           OEL TWA         50 ppm @th           OEL TWA         50 ppm @th           OEL TWA         50 ppm @th           OEL TWA         50 ppm @th           OEL TWA         50 ppm @th           OEL TWA         100 ppm @th           OEL TWA         205 mg/m <sup>3</sup> @th           OEL TWA         205 mg/m <sup>3</sup> @th           OEL TWA         205 mg/m <sup>3</sup> @th           OEL TWA         205 mg/m <sup>3</sup> @th           OEL TWA         205 mg/m <sup>3</sup> @th           OEL STEL         410 mg/m <sup>3</sup> @th           NPHV (OEL TWA)         50 ppm @th           NPHV (OEL STEL)         100 ppm @th           Slovenia - Occupational Exposure Limits         50 ppm @th           OEL TWA         210 mg/m <sup>3</sup> @th           OEL STEL         210 mg/m <sup>3</sup> @th           OEL STEL<	TPRV (OEL STEL)	416 mg/m³ @15min	
TGG-8u (OEL TWA)205 mg/m³TGG-15min (OEL STEL)410 mg/m³Poland - Occupational Exposure LimitsNDS (OEL TWA)100 mg/m³ @8hNDSP (OEL C)300 mg/m³ @15minPortugal - Occupational Exposure LimitsOEL TWA60 ppm @8hOEL STEL100 ppm @15minRomania - Occupational Exposure LimitsOEL TWA50 ppm @8hOEL TWA206 mg/m³ @8hOEL TWA206 mg/m³ @8hOEL STEL410 mg/m³ @15minOEL STEL100 ppm @15minStovakia - Occupational Exposure Limits100 ppm @15minStovakia - Occupational Exposure Limits50 ppm @8hNPHV (OEL TWA)50 ppm @8hNPHV (OEL STEL)100 ppm @15minStovakia - Occupational Exposure Limits50 ppm @8hOEL TWA210 mg/m³ @8hOEL TWA210 mg/m³ @15minStovakia - Occupational Exposure Limits50 ppm @8hOEL TWA210 mg/m³ @15minStovakia - Occupational Exposure Limits50 ppm @8hOEL STEL420 mg/m³ @15minStovakia - Occupational Exposure Limits50 ppm @8hOEL TWA50 ppm @8hOEL STEL420 mg/m³ @15minStovakia - Occupational Exposure Limits50 ppm @8hOEL STEL420 mg/m³ @15minOEL STEL50 ppm @8hOEL STEL50 ppm @8hOEL STEL50 ppm @8hOEL STEL50 ppm @8hOEL STEL50 ppm @8hOEL STEL50 ppm @8hOEL STEL50 ppm @8hOEL STEL		100 ppm @15min	
TGG-15min (OEL STEL)     410 mg/m³       Poland - Occupational Exposure Limits     100 mg/m³ @8h       NDS (OEL C)     300 mg/m³ @15min       Portugal - Occupational Exposure Limits     50 ppm @8h       OEL TWA     50 ppm @8h       OEL STEL     100 ppm @15min       Portugal - Occupational Exposure Limits     50 ppm @8h       OEL TWA     50 ppm @8h       OEL STEL     100 ppm @15min       OEL STEL     205 mg/m³ @8h       OEL STEL     410 mg/m³ @15min       OEL STEL     410 ppm @15min       Slovakia - Occupational Exposure Limits     50 ppm @8h       OEL STEL     410 pg/m³ @15min       Slovakia - Occupational Exposure Limits     50 ppm @8h       NPHV (OEL TWA)     50 ppm @8h       NPHV (OEL STEL)     100 ppm @15min       Slovenia - Occupational Exposure Limits     50 ppm @8h       OEL TWA     210 mg/m³ @15min       OEL TWA     210 mg/m³ @15min       OEL TWA     210 mg/m³ @15min       OEL STEL     210 mg/m³ @15min       OEL TWA     50 ppm @8h	Netherlands - Occupational Exposure Limits		
Poland - Occupational Exposure Limits         100 mg/m³ @ 8h           NDS (OEL C)         300 mg/m³ @ 15min           Portugal - Occupational Exposure Limits         50 ppm @8h           OEL TWA         50 ppm @8h           OEL STEL         100 ppm @ 15min           Romania - Occupational Exposure Limits         205 mg/m³ @8h           OEL TWA         205 mg/m³ @8h           OEL TWA         410 mg/m³ @ 15min           OEL TWA         205 mg/m³ @8h           OEL TWA         205 mg/m³ @8h           OEL TWA         205 mg/m³ @15min           OEL TWA         100 ppm @15min           Solvakia - Occupational Exposure Limits         100 ppm @15min           Slovakia - Occupational Exposure Limits         50 ppm @8h           NPHV (OEL TWA)         50 ppm @8h           NPHV (OEL TWA)         50 ppm @8h           OEL TWA         210 mg/m³ @15min           Slovenia - Occupational Exposure Limits         210 mg/m³ @15min           OEL TWA         50 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA         50 ppm @8h           OEL TWA<	TGG-8u (OEL TWA)	205 mg/m <sup>3</sup>	
NDS (OEL TWA)100 mg/m² @8hNDSP (OEL C)300 mg/m² @15minPortugal - Occupational Exposure Limits50 ppm @8hOEL TWA50 ppm @15minRomania - Occupational Exposure Limits100 ppm @15minOEL STEL205 mg/m² @8hOEL TWA205 mg/m² @8hOEL STEL410 mg/m² @15minOEL STEL410 mg/m² @15minOEL STEL410 mg/m² @15minOEL STEL100 ppm @15minSlovakia - Occupational Exposure Limits50 ppm @8hNPHV (OEL TWA)50 ppm @8hNPHV (OEL STEL)100 ppm @15minSlovania - Occupational Exposure Limits50 ppm @8hOEL TWA60 ppm @8hOEL TWA210 mg/m² @8hSlovania - Occupational Exposure Limits50 ppm @8hOEL TWA200 mg/m² @15minSlovania - Occupational Exposure Limits50 ppm @8hOEL TWA210 mg/m² @15minSlovania - Occupational Exposure Limits50 ppm @8hOEL TWA210 mg/m² @15minSlovania - Occupational Exposure Limits50 ppm @8hOEL TWA210 mg/m² @15minOEL TWA50 ppm @8hOEL STEL420 mg/m² @15minTuo ppm @15min100 ppm @15minSlovania - Occupational Exposure Limits50 ppm @8hOEL STEL420 mg/m² @15minTuo ppm @15min50 ppm @8hOEL TWA)50 ppm @8h	TGG-15min (OEL STEL)	410 mg/m <sup>3</sup>	
NDSP (OEL C)         300 mg/m³ @ 15min           Portugal - Occupational Exposure Limits         50 ppm @8h           OEL TWA         50 ppm @8h           OEL STEL         100 ppm @ 15min           Romania - Occupational Exposure Limits         205 mg/m³ @8h           OEL TWA         205 mg/m³ @8h           OEL TWA         205 mg/m³ @8h           OEL STEL         410 mg/m² @15min           100 ppm @15min         100 ppm @15min           Slovakia - Occupational Exposure Limits         100 ppm @15min           NPHV (OEL TWA)         50 ppm @8h           NPHV (OEL STEL)         100 ppm @15min           Slovakia - Occupational Exposure Limits         210 mg/m² @8h           OEL STEL         210 mg/m² @8h           OEL TWA         50 ppm @8h           OFL TWA         50 ppm @8h           OFL TWA         50 ppm @8h           OEL STEL         420 mg/m² @15min           OPP @8h         00 ppm @15min           OEL STEL         50 ppm @8h	Poland - Occupational Exposure Limits		
Portugal - Occupational Exposure Limits       50 ppm @8h         OEL TWA       50 ppm @15min         Romania - Occupational Exposure Limits       00 ppm @15min         OEL TWA       205 mg/m³ @8h         OEL TWA       410 mg/m³ @15min         OEL STEL       410 mg/m³ @15min         OEL STEL       410 mg/m³ @15min         Stovakia - Occupational Exposure Limits       100 ppm @15min         Stovakia - Occupational Exposure Limits       50 ppm @8h         NPHV (OEL TWA)       50 ppm @8h         NPHV (OEL STEL)       100 ppm @15min         Stovakia - Occupational Exposure Limits       50 ppm @8h         OEL TWA       50 ppm @15min         Stovakia - Occupational Exposure Limits       50 ppm @15min         Stovania - Occupational Exposure Limits       50 ppm @8h         OEL TWA       210 mg/m³ @8h         Stovania - Occupational Exposure Limits       50 ppm @8h         OEL STEL       420 mg/m³ @15min         OEL STEL       420 mg/m³ @15min         VLA-ED (OEL TWA)       50 ppm @8h	NDS (OEL TWA)	100 mg/m³ @8h	
OEL TWA     50 ppm @8h       OEL STEL     100 ppm @15min       Romania - Occupational Exposure Limits     205 mg/m³ @8h       OEL TWA     205 mg/m³ @8h       OEL TWA     205 mg/m³ @8h       OEL STEL     410 mg/m³ @15min       OEL STEL     410 mg/m³ @15min       Slovakia - Occupational Exposure Limits     100 ppm @15min       Slovakia - Occupational Exposure Limits     50 ppm @8h       NPHV (OEL TWA)     50 ppm @8h       NPHV (OEL STEL)     100 ppm @15min       Slovania - Occupational Exposure Limits     50 ppm @8h       OEL TWA     210 mg/m³ @8h       OEL STEL     210 mg/m³ @15min       OEL STEL     100 ppm @15min       Slovania - Occupational Exposure Limits     50 ppm @8h       OEL STEL     210 mg/m³ @15min       OEL STEL     100 ppm @15min       VLA-ED (OEL TWA)     50 ppm @8h	NDSP (OEL C)	300 mg/m <sup>3</sup> @15min	
OEL STEL       100 ppm @15min         Romania - Occupational Exposure Limits       205 mg/m³ @8h         OEL TWA       205 mg/m³ @8h         50 ppm @8h       50 ppm @8h         OEL STEL       410 mg/m² @15min         100 ppm @15min       100 ppm @15min         Slovakia - Occupational Exposure Limits       50 ppm @8h         NPHV (OEL TWA)       50 ppm @8h         NPHV (OEL STEL)       100 ppm @15min         Slovenia - Occupational Exposure Limits       50 ppm @8h         OEL TWA       210 mg/m² @8h         OEL STEL       420 mg/m² @15min         OEL STEL       420 mg/m² @15min         Too ppm @15min       50 ppm @8h         VLA-ED (OEL TWA)       50 ppm @8h	Portugal - Occupational Exposure Limits		
Romania - Occupational Exposure Limits         OEL TWA       205 mg/m³ @8h         OEL STEL       410 mg/m³ @15min         100 ppm @15min       100 ppm @15min         Slovakia - Occupational Exposure Limits         NPHV (OEL TWA)       50 ppm @8h         NPHV (OEL STEL)       100 ppm @15min         Slovenia - Occupational Exposure Limits       50 ppm @8h         OEL TWA       50 ppm @8h         OEL TWA       210 mg/m³ @8h         OEL TWA       210 mg/m³ @15min         OEL TWA       420 mg/m³ @15min         OEL STEL       420 mg/m³ @15min         OEL STEL       420 mg/m³ @15min         VLA-ED (OEL TWA)       50 ppm @8h	OEL TWA	50 ppm @8h	
OEL TWA       205 mg/m³ @8h         50 ppm @8h         OEL STEL       410 mg/m³ @15min         100 ppm @15min         Slovakia - Occupational Exposure Limits         NPHV (OEL TWA)       50 ppm @8h         NPHV (OEL STEL)       100 ppm @15min         Slovenia - Occupational Exposure Limits         OEL TWA       50 ppm @8h         OEL TWA       210 mg/m³ @8h         OEL TWA       210 mg/m³ @8h         OEL STEL       420 mg/m³ @15min         OEL STEL       420 mg/m³ @15min         Spain - Occupational Exposure Limits       100 ppm @15min         VLA-ED (OEL TWA)       50 ppm @8h	OEL STEL	100 ppm @15min	
So pm @8h           OEL STEL         410 mg/m³ @15min           100 ppm @15min         100 ppm @15min           Slovakia - Occupational Exposure Limits         50 ppm @8h           NPHV (OEL TWA)         50 ppm @8h           NPHV (OEL STEL)         100 ppm @15min           Slovania - Occupational Exposure Limits         100 ppm @15min           OEL TWA         210 mg/m³ @8h           OEL TWA         210 mg/m³ @8h           OEL STEL         420 mg/m³ @15min           OEL STEL         420 mg/m³ @15min           VLA-ED (OEL TWA)         50 ppm @8h	Romania - Occupational Exposure Limits		
OEL STEL       410 mg/m³ @ 15min         100 ppm @15min         Slovakia - Occupational Exposure Limits         NPHV (OEL TWA)       50 ppm @8h         NPHV (OEL STEL)       100 ppm @15min         Slovenia - Occupational Exposure Limits         OEL TWA       210 mg/m³ @8h         OEL TWA       210 mg/m³ @8h         OEL STEL       420 mg/m³ @15min         OEL STEL       420 mg/m³ @15min         VLA-ED (OEL TWA)       50 ppm @8h	OEL TWA	205 mg/m³ @8h	
Image: Image:		50 ppm @8h	
Slovakia - Occupational Exposure Limits         NPHV (OEL TWA)       50 ppm @8h         NPHV (OEL STEL)       100 ppm @15min         Slovenia - Occupational Exposure Limits       210 mg/m³ @8h         OEL TWA       210 mg/m³ @8h         50 ppm @8h       50 ppm @8h         OEL STEL       420 mg/m³ @15min         100 ppm @15min       100 ppm @15min         VLA-ED (OEL TWA)       50 ppm @8h	OEL STEL	410 mg/m³ @15min	
NPHV (OEL TWA)50 ppm @8hNPHV (OEL STEL)100 ppm @15minSlovenia - Occupational Exposure LimitsOEL TWA210 mg/m³ @8h0EL TWA210 mg/m³ @8h0EL STEL420 mg/m³ @15min0EL STEL100 ppm @15minSpain - Occupational Exposure LimitsVLA-ED (OEL TWA)50 ppm @8h		100 ppm @15min	
NPHV (OEL STEL)     100 ppm @15min       Slovenia - Occupational Exposure Limits     210 mg/m³ @8h       OEL TWA     210 mg/m³ @8h       50 ppm @8h     50 ppm @8h       OEL STEL     420 mg/m³ @15min       100 ppm @15min     100 ppm @15min       Spain - Occupational Exposure Limits     50 ppm @8h       VLA-ED (OEL TWA)     50 ppm @8h	Slovakia - Occupational Exposure Limits		
Slovenia - Occupational Exposure Limits       OEL TWA     210 mg/m³ @8h       50 ppm @8h       OEL STEL     420 mg/m³ @15min       100 ppm @15min       Spain - Occupational Exposure Limits       VLA-ED (OEL TWA)     50 ppm @8h	NPHV (OEL TWA)	50 ppm @8h	
OEL TWA       210 mg/m³ @8h         50 ppm @8h         OEL STEL       420 mg/m³ @15min         100 ppm @15min         Spain - Occupational Exposure Limits         VLA-ED (OEL TWA)       50 ppm @8h	NPHV (OEL STEL)	100 ppm @15min	
So ppm @8h       OEL STEL     420 mg/m³ @15min       100 ppm @15min       Spain - Occupational Exposure Limits       VLA-ED (OEL TWA)     50 ppm @8h	Slovenia - Occupational Exposure Limits		
OEL STEL     420 mg/m³ @15min       100 ppm @15min       Spain - Occupational Exposure Limits       VLA-ED (OEL TWA)     50 ppm @8h	OEL TWA	210 mg/m³ @8h	
I00 ppm @15min       Spain - Occupational Exposure Limits       VLA-ED (OEL TWA)     50 ppm @8h		50 ppm @8h	
Spain - Occupational Exposure Limits       VLA-ED (OEL TWA)     50 ppm @8h	OEL STEL	420 mg/m³ @15min	
VLA-ED (OEL TWA) 50 ppm @8h		100 ppm @15min	
	Spain - Occupational Exposure Limits		
VLA-EC (OEL STEL) 100 ppm @15min	VLA-ED (OEL TWA)	50 ppm @8h	
	VLA-EC (OEL STEL)	100 ppm @15min	



Methyl methacrylate (80-62-6)	
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	210 mg/m³ @8h
	50 ppm @8h
KGV (OEL STEL)	420 mg/m³ @15min
	100 ppm @15min
Iceland - Occupational Exposure Limits	
OEL TWA	50 ppm @8h
OEL STEL	100 ppm @15min
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	100 mg/m³ @8h
	25 ppm @8h
Korttidsverdi (OEL STEL)	400 mg/m³ @15min
	100 ppm @15min

#### 8.2. Exposure controls

## Personal protection equipment

## Personal protective equipment:

Safety glasses. Gloves. Personal protective equipment symbol(s):



#### **Skin protection**

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

#### Hand protection:

Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Nitrile rubber (NBR) /

#### **Respiratory protection**

#### **Respiratory protection:**

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

9.1. Information on basic physi	cal and chemical properties	
Physical state Colour Appearance Odour Odour threshold Melting point Freezing point Boiling point Flammability Lower explosion limit Upper explosion limit Flash point	<ul> <li>Liquid</li> <li>brown.</li> <li>Oily liquid.</li> <li>Characteristic.</li> <li>Not available</li> <li>Not available</li> <li>Not available</li> <li>Not available</li> <li>Not available</li> <li>Not available</li> <li>Not available</li> <li>Not available</li> <li>&gt; 180 °C (ASTM D92)</li> </ul>	



Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 163 mm²/s @ 40°C (ASTM D445)
Solubility	: Slightly soluble, the product remains on the water surface.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 893 kg/m³ @15°C (ASTM D4052)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

No additional information available

ECTION 10: Stability and reactivity
.1. Reactivity
ne under normal conditions.
0.2. Chemical stability
able under normal conditions.
0.3. Possibility of hazardous reactions
ne under normal conditions.
.4. Conditions to avoid
data available.
1.5. Incompatible materials
ong oxidizers. acids. Bases.
.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information	
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008	
Acute toxicity (dermal)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Methyl methacrylate (80-62-6)	
LD50 oral rat	7900 mg/kg
LD50 dermal rabbit	> 5000 mg/kg (OECD 402)
LC50 Inhalation - Rat (Vapours)	29.8 mg/l/4h
Serious eye damage/irritation	Not classified Not classified Not classified
Methyl methacrylate (80-62-6)	
Skin sensitization, - Skin contact, mouse	Skin sensitization (OECD 429)
Germ cell mutagenicity	Not classified



Methyl methacrylate (80-62-6)		
In vitro Mammalian Cell Gene Mutation Test, In vitro, mammalian	Positive (OECD 476, WOE does not support classification)	
In vitro Mammalian Chromosomal Aberration Test, In vitro, mammalian	Equivocal (OECD 473, WOE does not support classification)	
Rodent Dominant Lethal Test, In vivo, mammalian	Negative (OECD 478)	
Bacterial Reverse Mutation Test, In vitro, Bacteria	Negative (OECD 471)	
Carcinogenicity :	Not classified	
Methyl methacrylate (80-62-6)		
Combined Chronic Toxicity/Carcinogenicity Studies, NOAEL, inhalation, rat	Negative (104w; 5d/w, OECD 453)	
Reproductive toxicity :	Not classified	
STOT-single exposure :	Not classified	
Methyl methacrylate (80-62-6)		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure :	Not classified	
Phosphoric acid ester amine salt		
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight/day @28d (OECD 407)	
Aspiration hazard :	Not classified	
GEAR OIL GL 5 LS SAE 75W140		
Viscosity, kinematic	163 mm²/s @ 40°C (ASTM D445)	

### 11.2. Information on other hazards

No additional information available

## **SECTION 12: Ecological information**

## 12.1. Toxicity

(acute)	Not classified Harmful to aquatic life with long lasting effects.	
Polysulphides, di-tert-Bu (68937-96-2)		
EC50 - Crustacea [1]	63 mg/l @2d (Daphnia magna)	
EC50 - Other aquatic organisms [1]	> 10000 mg/l @0,1d (Sludge)	
EC50 72h - Algae [2]	> 100 mg/l @3d	
Phosphoric acid ester amine salt		
LC50 - Fish [1]	24 mg/l Oncorhynchus mykiss	
LC50 - Fish [2]	8.5 mg/l Pimephales promelas	
EC50 - Crustacea [1]	91.4 mg/l 2d (Daphnia magna)	
EC50 - Crustacea [2]	0.66 mg/l 21d (Daphnia magna)	
EC50 96h - Algae [1]	6.4 mg/l @4d (Selenastrum capricornutum)	
NOEC (chronic)	3.2 mg/l Oncorhynchus mykiss @4d	



Phosphoric acid ester amine salt		
NOEC chronic crustacea	0.12 mg/l @21d (Daphnia magna)	
NOEC chronic algae	1.7 mg/l @4d (Selenastrum capricornutum)	
Methyl methacrylate (80-62-6)		
LC50 - Fish [1]	> 79 mg/l @96h; Oncorhynchus mykiss	
EC50 - Crustacea [1]	69 mg/l @48h; Daphnia magna	
EC50 72h - Algae [1]	> 110 mg/l @72h; Pseudokirchneriella subcapitata	
NOEC chronic fish	9.4 mg/l @35d; Danio rerio (OECD 210)	
NOEC chronic crustacea	37 mg/l @21d; Daphnia magna (OECD 211)	
NOEC chronic algae	110 mg/l @72h, Selenastrum capricornutum (OECD 201)	

### 12.2. Persistence and degradability

GEAR OIL GL 5 LS SAE 75W140		
Persistence and degradability	Not soluble in water, so only minimally biodegradable.	
Polysulphides, di-tert-Bu (68937-96-2)		
Persistence and degradability	Rapidly degradable	
Biodegradation	13 % % @OECD TG @28d	
Phosphoric acid ester amine salt		
Persistence and degradability	Rapidly degradable	
BOD (% of ThOD)	3.6 % ThOD @28d (inherent sediment)	
Biodegradation	7.4 % @28d (OECD TG 301B)	
Methyl methacrylate (80-62-6)		
Persistence and degradability	Rapidly degradable	
Biodegradation	94 % @14d (OECD 301 C)	

## 12.3. Bioaccumulative potential

Polysulphides, di-tert-Bu (68937-96-2)	
Partition coefficient n-octanol/water (Log Kow) 6	
Methyl methacrylate (80-62-6)	
Partition coefficient n-octanol/water (Log Kow)	1.38

### 12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Endocrine disrupting properties	
Adverse effects on the environment caused by endocrine disrupting properties	The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.



### 12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Additional information	: Dispose in a safe manner in accordance with local/national regulations.
SECTION 14: Transport information	
In accordance with ADR / IMDG / IATA / ADN / RID	
14.1. UN number or ID number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable
IATA Transport hazard class(es) (IATA)	: Not applicable
ADN Transport hazard class(es) (ADN)	: Not applicable
RID Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>
14.5. Environmental hazards	
Other information	: No supplementary information available
14.6. Special precautions for user	
Overland transport No data available	
Transport by sea	

Transport by sea No data available



Air transport No data available

Inland waterway transport No data available

Rail transport No data available

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

### SECTION 15: Regulatory information

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

#### **EU-Regulations**

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### Regulation (EU) 2021/821 for the control of dual-use items

Contains no substance subject to the Regulation (EU) 2021/821 for the control of dual-use items

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### **National regulations**

France

Occupational diseases		
Code	Description	
RG 82	Conditions caused by methyl methacrylate	
Germany		
Water hazard class (WGK) List of sensitizing substances (TRGS 907)		<ul> <li>WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).</li> <li>Contains sensitizing substances according TRGS 907.</li> </ul>
Hazardous Incident Ordinance (12. BImSchV)		: Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen	: Polysulphides, di-tert-Bu is listed
SZW-lijst van mutagene stoffen	: Polysulphides, di-tert-Bu is listed



SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed	
SZW-lijst van reprotoxische stoffen – : None of the components are listed	
Vruchtbaarheid SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed	
Denmark	
Danish National Regulations       : Pregnant/breastfeeding women working with the product must not be in direct conta         the product       the product	ct with
Norway	
Declaration number : 669269	
Poland	
Polish National Regulations : Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, 322 as amended).	item
Act of 14 December 2012 on Waste (J. o L. 2013, item 322 as amended).The announcement of Marshal of the Sejm of the Republic of Poland dated 19 Oct2016 concerning the consolidated text announcement of the decree on the managepackaging and packaging waste (J. o L. 2016, item 1863 as amended).Decree of the Minister of Environment of 14 December 2014 on the catalogue of waL. 2014, item 1923).Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227,1367 as amended; consolidated text J. o L. 2019, item 382).Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on thhighest permissible concentration and intensity of noxious agents for health at workenvironment (J. o L. of 3 July 2018, item 1286 as amended).The announcement of Minister of Health dated 9 September 2016 concerning theconsolidated text announcement of the decree of the Minister of Health of 30 Dece2004 on health and safety at work related to exposure to chemical agents at work (16 September 2016, item 1488)Regulation of the Minister of Health of 2 February 2011 on tests and measurementsnoxious agents for health at work environment (J. o L. No. 33, item 166).Regulation of the Minister of Environment of 9 December 2003 on particularly hazasubstances to the environment (J. o L. No. 217, item 2141).ADR Agreement: Government Statement of 13 March 2023 on the entry into force	ment of aste (J. o tem ne t unber J. o L. of the rdous
amendments to Annexes A and B to the Agreement concerning the International Ca Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. item 891)	-

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

## SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
	Revision date	Modified
	Supersedes	Modified
15.1	Declaration number	Added

Abbreviations and acronyms:		
	ACGIH: American Conference of Governmental Industrial Hygienists	
	TWA: Time Weighted Average	
	TLV: Threshold Limit Value	
	ASTM: American Society for Testing and Materials	



Abbreviations and acronyms:	
	ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route
	RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
	ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin
	IMDG: International Maritime Dangerous Goods
	ICAO: International Civil Aviation Organization
	IATA: International Air Transport Association
	STEL: Short Term Exposure Limit
	LD50: median Lethal Dose for 50% of subjects
	ATE: acute toxicity estimate
	LC50: median Lethal Concentration for 50% of subjects
	EC50: concentration producing 50% effect

Other information

: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
EUH208	Contains Methyl methacrylate. May produce an allergic reaction.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation