



# PM Xeramic KZ Kart Gear Oil

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SDS Reference Number: 250907PM00

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : PM Xeramic KZ Kart Gear Oil  
Product code : 20473

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

##### Relevant identified uses

Intended for general public  
Main use category : Professional use, Consumer use  
Function or use category : Lubricants and additives

#### 1.3. Details of the supplier of the safety data sheet

Petromark Automotive Chemicals BV B.V.  
Rooswijkweg 316  
NL 1951 ME Velsen-Noord, Nederland  
T +31 251 211397, F +31 251 212390  
[info@petromark.eu](mailto:info@petromark.eu) [www.xeramic.com](http://www.xeramic.com)

#### 1.4. Emergency telephone number

Emergency number : +31 251 211397

Country/Area	Organisation/Company	Address	Emergency number	Comment
Australia	NSW Poisons Information Centre The Children's Hospital at Westmead	Locked Bag 4001 NSW 2145	13 11 26	
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+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	
Jordan	National Drug & Poison Information Center of Jordan		0798506755 00962-6-5353444	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090 Msida	112 +356 2545 6508	
Saudi Arabia	Poison Control Center-Riyadh	General Directorate of Health Affairs Medial Province	+966 112324180 +966 112324189	
United Arab Emirates	Health Authority – Abu Dhabi (HAAD) Poison & Drug Information Center (PDIC)	P.O. Box 5674	+ 800-424	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

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### 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

Harmful to aquatic life with long lasting effects.

#### 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) : P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read carefully and follow all instructions.  
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.

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based substance with national workplace exposure limit(s) (BE, BG, CZ, DK, ES, FI, GR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SK, IS, NO, CH); substance with a Community workplace exposure limit (Note L)	CAS-No.: 72623-86-0 EC-No.: 276-737-9 EC Index-No.: 649-482-00-X REACH-no: 01-2119474878-16	$\geq 45 - < 55$	Asp. Tox. 1, H304
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil substance with a Community workplace exposure limit (Note L)	CAS-No.: 72623-87-1 EC-No.: 276-738-4 EC Index-No.: 649-483-00-5 REACH-no: 01-2119474889-13	$\geq 25 - < 45$	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH); substance with a Community workplace exposure limit (Note L)	CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3 REACH-no: 01-2119487077-29	$\geq 1 - < 3$	Asp. Tox. 1, H304

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit (Note L)	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627-25	≥ 1 – < 3	Not classified
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich substance with a Community workplace exposure limit	CAS-No.: 398141-87-2 EC-No.: 800-172-4 REACH-no: 01-2119969520-35	≥ 0,5 – < 3	Aquatic Chronic 2, H411
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	CAS-No.: 61791-44-4 EC-No.: 620-540-6 REACH-no: 01-2119510877-33	< 0,3	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
Dimantine	CAS-No.: 124-28-7 EC-No.: 204-694-8 REACH-no: 01-2119486676-20	< 0,3	Acute Tox. 4 (Oral), H302 (ATE=1230 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine	EC-No.: 939-485-7 REACH-no: 01-2119974116-35	< 0,1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	CAS-No.: 95-38-5 EC-No.: 202-414-9 REACH-no: 01-2119777867-13	< 0,1	Acute Tox. 4 (Oral), H302 (ATE=1265 mg/kg bodyweight) Skin Corr. 1C, H314 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Distillates (petroleum), hydrotreated light naphthenic substance with national workplace exposure limit(s) (BE, BG, CZ, DK, ES, FI, GR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SK, IS, NO, CH); substance with a Community workplace exposure limit (Note L)	CAS-No.: 64742-53-6 EC-No.: 265-156-6 EC Index-No.: 649-466-00-2 REACH-no: 01-2119480375-34	< 0,1	Asp. Tox. 1, H304
2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar"-Me derivs. substance with a Community workplace exposure limit	CAS-No.: 92257-31-3 EC-No.: 296-120-8 REACH-no: 01-2120753600-62	< 0,1	Repr. 2, H361f STOT RE 2, H373 Aquatic Chronic 4, H413

Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

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

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a water jet since it may cause the fire to spread.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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#### 5.3. Advice for firefighters

Precautionary measures fire	: Exercise caution when fighting any chemical fire.
Firefighting instructions	: Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid spilling the product, as this might cause falls.
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##### For non-emergency personnel

Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area.

##### For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes.
Handling temperature	: ≤ 40 °C
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Provide local exhaust or general room ventilation.
Storage conditions	: Store in a well-ventilated place. Keep cool.
Storage temperature	: ≤ 40 °C
Storage area	: Store in a well-ventilated place. Store away from heat.
Special rules on packaging	: Keep only in original container. Store in a closed container.

#### Germany

Storage class (LGK, TRGS 510)

Joint storage table

: LGK 12 - Non-combustible liquids

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for

Joint storage with restrictions permitted for

Joint storage permitted for

: LGK 1, LGK 6.2, LGK 7

: LGK 4.1A, LGK 4.3, LGK 5.1C

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13

#### 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

##### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

##### EU - Indicative Occupational Exposure Limit (IOEL)

IOEL TWA	5 mg/m <sup>3</sup>
IOEL STEL	10 mg/m <sup>3</sup>

##### Austria - Occupational Exposure Limits

MAK (OEL TWA)	5 mg/m <sup>3</sup>
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##### Belgium - Occupational Exposure Limits

OEL TWA	5 mg/m <sup>3</sup> Form: mist
OEL STEL	10 mg/m <sup>3</sup> Form: mist

##### Bulgaria - Occupational Exposure Limits

OEL TWA	5 mg/m <sup>3</sup>
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##### Croatia - Occupational Exposure Limits

GVI (OEL TWA)	5 mg/m <sup>3</sup>
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Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Czech Republic - Occupational Exposure Limits	
PEL (OEL TWA)	5 mg/m <sup>3</sup> Form: aerosol
NPK-P (OEL C)	10 mg/m <sup>3</sup> Form: aerosol
Denmark - Occupational Exposure Limits	
OEL TWA	1 mg/m <sup>3</sup> Form: mist and particles
OEL STEL	2 mg/m <sup>3</sup> Form: mist and particles
Estonia - Occupational Exposure Limits	
OEL TWA	5 mg/m <sup>3</sup>
Finland - Occupational Exposure Limits	
HTP (OEL TWA)	5 mg/m <sup>3</sup> Form: mist
France - Occupational Exposure Limits	
VME (OEL TWA)	5 mg/m <sup>3</sup>
Greece - Occupational Exposure Limits	
OEL TWA	5 mg/m <sup>3</sup> Form: mist
Hungary - Occupational Exposure Limits	
AK (OEL TWA)	5 mg/m <sup>3</sup> Form: mist
Ireland - Occupational Exposure Limits	
OEL TWA	5 ppm Form: inhalable fraction
Italy - Occupational Exposure Limits	
OEL TWA	5 mg/m <sup>3</sup>
Latvia - Occupational Exposure Limits	
OEL TWA	5 mg/m <sup>3</sup>
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	1 mg/m <sup>3</sup> Form: mist
TPRV (OEL STEL)	3 mg/m <sup>3</sup> Form: mist
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	5 mg/m <sup>3</sup> Form: mist
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	5 mg/m <sup>3</sup> Form: Inhalable fraction
Portugal - Occupational Exposure Limits	
OEL TWA	5 mg/m <sup>3</sup> Form: inhalable fraction
Romania - Occupational Exposure Limits	
OEL TWA	5 mg/m <sup>3</sup>
OEL STEL	10 mg/m <sup>3</sup>
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	1 mg/m <sup>3</sup> Form: liquid aerosol, fumes
	5 ppm Form: liquid aerosol, fumes
NPHV (OEL STEL)	3 mg/m <sup>3</sup> Form: liquid aerosol, fumes
	15 ppm Form: liquid aerosol, fumes

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<b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>	
<b>Slovenia - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup>
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	5 mg/m <sup>3</sup> Form: mist
VLA-EC (OEL STEL)	10 mg/m <sup>3</sup> Form: mist
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	1 mg/m <sup>3</sup> Form: mist and fume
KGV (OEL STEL)	3 mg/m <sup>3</sup> Form: mist and fume
<b>United Kingdom - Occupational Exposure Limits</b>	
WEL TWA (OEL TWA)	5 mg/m <sup>3</sup>
<b>Iceland - Occupational Exposure Limits</b>	
OEL TWA	1 mg/m <sup>3</sup> Form: particulates
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA)	1 mg/m <sup>3</sup> Form: mineral oil particles
	50 mg/m <sup>3</sup> Form: vapor
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	5 mg/m <sup>3</sup> Form: inhalable fraction
<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA	5 mg/m <sup>3</sup>
ACGIH OEL STEL	10 mg/m <sup>3</sup>
<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	5 mg/m <sup>3</sup>
IOEL STEL	10 mg/m <sup>3</sup>
<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	5 mg/m <sup>3</sup>
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup> Form: mist
OEL STEL	10 mg/m <sup>3</sup> Form: mist
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup>
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	5 mg/m <sup>3</sup> Form: aerosol
NPK-P (OEL C)	10 mg/m <sup>3</sup> Form: aerosol
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	1 mg/m <sup>3</sup> Form: mist and particles
OEL STEL	2 mg/m <sup>3</sup> Form: mist and particles

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Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)	
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	5 mg/m <sup>3</sup> Form: Mist
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup> Form: Mist
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	5 mg/m <sup>3</sup> Form: Mist
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	5 ppm Form: Inhalable fraction
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup>
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	1 mg/m <sup>3</sup> Form: mist
TPRV (OEL STEL)	3 mg/m <sup>3</sup> Form: mist
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	5 mg/m <sup>3</sup> Form: mist
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	5 mg/m <sup>3</sup> Form: Inhalable fraction
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup> Form: inhalable fraction
<b>Romania - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup>
OEL STEL	10 mg/m <sup>3</sup>
<b>Slovakia - Occupational Exposure Limits</b>	
NPHV (OEL TWA)	1 mg/m <sup>3</sup> Form: liquid aerosol, fumes
	5 ppm Form: liquid aerosol, fumes
NPHV (OEL STEL)	3 mg/m <sup>3</sup> Form: liquid aerosol, fumes
	15 ppm Form: liquid aerosol, fumes
<b>Spain - Occupational Exposure Limits</b>	
VLA-ED (OEL TWA)	5 mg/m <sup>3</sup> Form: mist
VLA-EC (OEL STEL)	10 mg/m <sup>3</sup> Form: mist
<b>Sweden - Occupational Exposure Limits</b>	
NGV (OEL TWA)	1 mg/m <sup>3</sup> Form: mist and fume
KGV (OEL STEL)	3 mg/m <sup>3</sup> Form: mist and fume
<b>Iceland - Occupational Exposure Limits</b>	
OEL TWA	1 mg/m <sup>3</sup> Form: particulates
<b>Norway - Occupational Exposure Limits</b>	
Grenseverdi (OEL TWA)	1 mg/m <sup>3</sup> Form: mineral oil particles
	50 mg/m <sup>3</sup> Form: vapor



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<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)</b>	
<b>Switzerland - Occupational Exposure Limits</b>	
MAK (OEL TWA)	5 mg/m <sup>3</sup> Form: Inhalable fraction
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	50 ppm
<b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	5 mg/m <sup>3</sup>
<b>Austria - Occupational Exposure Limits</b>	
MAK (OEL TWA)	5 mg/m <sup>3</sup>
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup> Form: mist
OEL STEL	10 mg/m <sup>3</sup> Form: mist
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup>
<b>Croatia - Occupational Exposure Limits</b>	
GVI (OEL TWA)	5 mg/m <sup>3</sup>
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	5 mg/m <sup>3</sup> Form: aerosol
NPK-P (OEL C)	10 mg/m <sup>3</sup> Form: aerosol
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	1 mg/m <sup>3</sup> Form: mist and particles
OEL STEL	2 mg/m <sup>3</sup> Form: mist and particles
<b>Estonia - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup>
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	5 mg/m <sup>3</sup> Form: Mist
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	5 mg/m <sup>3</sup>
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
AGW (OEL TWA)	5 mg/m <sup>3</sup>
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup> Form: Mist
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	5 mg/m <sup>3</sup> Form: Mist
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	5 ppm Form: Inhalable fraction

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Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
Italy - Occupational Exposure Limits	
OEL TWA	5 mg/m <sup>3</sup>
Latvia - Occupational Exposure Limits	
OEL TWA	5 mg/m <sup>3</sup>
Lithuania - Occupational Exposure Limits	
IPRV (OEL TWA)	1 mg/m <sup>3</sup> Form: mist
TPRV (OEL STEL)	3 mg/m <sup>3</sup> Form: mist
Netherlands - Occupational Exposure Limits	
TGG-8u (OEL TWA)	5 mg/m <sup>3</sup> Form: mist
Poland - Occupational Exposure Limits	
NDS (OEL TWA)	5 mg/m <sup>3</sup> Form: Inhalable fraction
Portugal - Occupational Exposure Limits	
OEL TWA	5 mg/m <sup>3</sup> Form: inhalable fraction
Romania - Occupational Exposure Limits	
OEL TWA	5 mg/m <sup>3</sup>
OEL STEL	10 mg/m <sup>3</sup>
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	1 mg/m <sup>3</sup> Form: liquid aerosol, fumes
	5 ppm Form: liquid aerosol, fumes
NPHV (OEL STEL)	3 mg/m <sup>3</sup> Form: liquid aerosol, fumes
	15 ppm Form: liquid aerosol, fumes
Slovenia - Occupational Exposure Limits	
OEL TWA	5 mg/m <sup>3</sup>
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	5 mg/m <sup>3</sup> Form: mist
VLA-EC (OEL STEL)	10 mg/m <sup>3</sup> Form: mist
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	1 mg/m <sup>3</sup> Form: mist and fume
KGV (OEL STEL)	3 mg/m <sup>3</sup> Form: mist and fume
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	5 mg/m <sup>3</sup>
Iceland - Occupational Exposure Limits	
OEL TWA	1 mg/m <sup>3</sup> Form: particulates
Norway - Occupational Exposure Limits	
Grenseverdi (OEL TWA)	1 mg/m <sup>3</sup> Form: mineral oil particles
	50 mg/m <sup>3</sup> Form: vapor
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	5 mg/m <sup>3</sup> Form: Inhalable fraction

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<b>2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs. (92257-31-3)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	0,14 mg/m <sup>3</sup>
	0,008 ppm
IOEL STEL	0,42 mg/m <sup>3</sup>
	0,02 ppm
<b>Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	5 mg/m <sup>3</sup>
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup> Form: mist
OEL STEL	10 mg/m <sup>3</sup> Form: mist
<b>Bulgaria - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup>
<b>Czech Republic - Occupational Exposure Limits</b>	
PEL (OEL TWA)	5 mg/m <sup>3</sup> Form: aerosol
NPK-P (OEL C)	10 mg/m <sup>3</sup> Form: aerosol
<b>Denmark - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup> Form: mist and particles
OEL STEL	2 mg/m <sup>3</sup> Form: mist and particles
<b>Finland - Occupational Exposure Limits</b>	
HTP (OEL TWA)	5 mg/m <sup>3</sup> Form: Mist
<b>Greece - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup> Form: Mist
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	5 mg/m <sup>3</sup> Form: Mist
<b>Ireland - Occupational Exposure Limits</b>	
OEL TWA	5 ppm inhalable dust
<b>Latvia - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup>
<b>Lithuania - Occupational Exposure Limits</b>	
IPRV (OEL TWA)	1 mg/m <sup>3</sup> Form: mist
TPRV (OEL STEL)	3 mg/m <sup>3</sup> Form: mist
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	5 mg/m <sup>3</sup> Form: mist
<b>Poland - Occupational Exposure Limits</b>	
NDS (OEL TWA)	5 mg/m <sup>3</sup> Form: Inhalable fraction
<b>Portugal - Occupational Exposure Limits</b>	
OEL TWA	5 mg/m <sup>3</sup> Form: Inhalable fraction

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Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
Romania - Occupational Exposure Limits	
OEL TWA	5 mg/m <sup>3</sup>
OEL STEL	10 mg/m <sup>3</sup>
Slovakia - Occupational Exposure Limits	
NPHV (OEL TWA)	1 mg/m <sup>3</sup> Form: liquid aerosol, fumes
NPHV (OEL STEL)	3 mg/m <sup>3</sup> Form: liquid aerosol, fumes
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA)	5 mg/m <sup>3</sup> Form: mist
VLA-EC (OEL STEL)	10 mg/m <sup>3</sup> Form: mist
Sweden - Occupational Exposure Limits	
NGV (OEL TWA)	1 mg/m <sup>3</sup> Form: mist and fume
KGV (OEL STEL)	3 mg/m <sup>3</sup> Form: mist and fume
Iceland - Occupational Exposure Limits	
OEL TWA	1 mg/m <sup>3</sup> Form: particulates
Norway - Occupational Exposure Limits	
Grønseverdi (OEL TWA)	1 mg/m <sup>3</sup> Form: mineral oil particles
Switzerland - Occupational Exposure Limits	
MAK (OEL TWA)	5 mg/m <sup>3</sup> Form: Inhalable fraction

## 8.2. Exposure controls

### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protection equipment

#### Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

#### Personal protective equipment symbol(s):



### Eye and face protection

#### Eye protection:

Safety glasses

Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

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Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	6 (> 480 minutes)	≥ 0.35	3 (> 0.65)	EN ISO 374

### Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: red.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: -48 °C (ASTM D7346)
Boiling point	: Not available
Flammability	: Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 201 °C (ASTM D92)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 28 mm <sup>2</sup> /s @ 40°C (ASTM D7042)
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 843 kg/m <sup>3</sup> @ 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

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

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### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

LD50 oral (rat)	> 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test
LD50 dermal (rabbit)	> 5000 mg/kg 402 Acute Dermal Toxicity Test
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5,53 mg/l/4h 403 Acute Inhalation Toxicity Test

#### Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)

LD50 oral (rat)	> 5000 mg/kg
LD50 dermal (rabbit)	> 2000 mg/kg
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5,53 mg/l/4h

#### Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)

LD50 oral (rat)	> 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test
LD50 dermal (rabbit)	> 2000 mg/kg 402 Acute Dermal Toxicity Test
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5,53 mg/l/4h 403 Acute Inhalation Toxicity Test

#### Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)

LD50 oral (rat)	> 10000 mg/kg
LD50 dermal (rabbit)	≥ 4000 – < 8000 mg/kg

#### Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

LD50 oral (rat)	> 5000 mg/kg 401 Acute Oral Toxicity Test
LD50 dermal (rabbit)	> 5000 mg/kg 402 Acute Dermal Toxicity Test
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5,53 mg/l/4h 403 Acute Inhalation Toxicity Test

#### 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (61791-44-4)

LD50 oral (rat)	≥ 500 – ≤ 2000 mg/kg 401 Acute Oral Toxicity
LD50 dermal (rabbit)	> 2000 mg/kg
LC50 inhalation (rat) (mg/l)	≥ mg/l
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 0,6 mg/l/4h

#### Dimantine (124-28-7)

LD50 oral (rat)	1320 mg/kg OECD 401 Acute Oral Toxicity
LD50 dermal (rabbit)	> 2000 mg/kg

#### 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)

LD50 oral (rat)	1265 mg/kg bodyweight 401 Acute Oral Toxicity
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<b>3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine</b>	
LD50 oral (rat)	500 – 2000 mg/kg 401 Acute Oral Toxicity Test
<b>2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs. (92257-31-3)</b>	
LD50 oral (rat)	> 5000 mg/kg
LD50 dermal (rabbit)	> 2000 mg/kg
<b>Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)</b>	
LD50 oral (rat)	> 5000 mg/kg bodyweight OECD Test Guideline 401
LD50 dermal (rabbit)	> 5000 mg/kg OECD Test Guideline 402
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5,53 mg/l/4h OECD Test Guideline 403
Skin corrosion/irritation	: Not classified
<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)</b>	
pH	11,1
<b>2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs. (92257-31-3)</b>	
pH	5,93 @20°C
Serious eye damage/irritation	: Not classified
<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)</b>	
pH	11,1
<b>2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs. (92257-31-3)</b>	
pH	5,93 @20°C
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
<b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)</b>	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day
<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)</b>	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight
<b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b>	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)</b>	
LOAEL (oral, rat, 90 days)	≥ 60 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:
NOAEL (oral, rat, 90 days)	20 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:

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<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)</b>	
STOT-repeated exposure	May cause damage to organs (gastro-intestinal tract, thymus) through prolonged or repeated exposure (oral).
<b>2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs. (92257-31-3)</b>	
STOT-repeated exposure	May cause damage to organs (spleen, liver) through prolonged or repeated exposure (oral).
<b>Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)</b>	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	≈ 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
Aspiration hazard	: Not classified
<b>PM Xeramic KZ Kart Gear Oil</b>	
Viscosity, kinematic	28 mm <sup>2</sup> /s @ 40°C (ASTM D7042)
<b>Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)</b>	
Viscosity, kinematic	> 20,5 mm <sup>2</sup> /s @ 40°C
<b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)</b>	
Viscosity, kinematic	47 mm <sup>2</sup> /s
<b>Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)</b>	
Viscosity, kinematic	2978 mm <sup>2</sup> /s 40°C
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)</b>	
Viscosity, kinematic	4,263 – 24,46 mm <sup>2</sup> /s
<b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b>	
Viscosity, kinematic	< 20,5 mm <sup>2</sup> /s @40°C
<b>Dimantine (124-28-7)</b>	
Viscosity, kinematic	5,074 mm <sup>2</sup> /s
<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)</b>	
Viscosity, kinematic	35,85 mm <sup>2</sup> /s Temp.: '40°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)'
<b>Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)</b>	
Viscosity, kinematic	1,99 – 847 mm <sup>2</sup> /s Temp.: '40°C' Parameter: 'mm <sup>2</sup> /s' 'mm <sup>2</sup> /s'

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.



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Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LC50 - Fish [1]	> 100 mg/l Pimephales promelas
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna
EC50 72h - Algae [1]	≥ 100 Scenedesmus quadricauda
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss 14d
NOEC chronic crustacea	10 mg/l Daphnia magna 21d
NOEC chronic algae	> 100 mg/l Pseudokirchneriella subcapitata (72hrs)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)	
LC50 - Fish [1]	> 100 mg/l Pimephales promelas
EC50 - Crustacea [1]	> 10000 Daphnia magna
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss (14d)
NOEC chronic crustacea	10 mg/l Daphnia magna (21d)
NOEC chronic algae	100 mg/l Pseudokirchneriella subcapitata (72h)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)	
LC50 - Fish [1]	> 100 mg/l Pimephales promelas (OECD 203)
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna (OECD 202)
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss (14d)
NOEC chronic crustacea	10 mg/l Daphnia magna (21d)
NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)	
LC50 - Fish [1]	2,4 mg/l Oncorhynchus mykiss (Rainbow trout)
LC50 - Fish [2]	3,3 mg/l Cyprinodon variegatus
EC50 - Crustacea [1]	4,6 mg/l Daphnia magna
EC50 72h - Algae [1]	63 mg/l Scenedesmus quadricauda
NOEC chronic fish	1 mg/l
NOEC chronic crustacea	0,63 mg/l
NOEC chronic algae	0,313 mg/l Scenedesmus quadricauda (3d)
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
LC50 - Fish [1]	> 100 mg/l Pimephales promelas (OECD 203)
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna (OECD 202)
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss (14d)
NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (61791-44-4)	
LC50 - Fish [1]	0,1 mg/kg Dania rerio
EC50 - Crustacea [1]	0,043 mg/l Daphnia magna
EC50 72h - Algae [1]	0,0538 mg/l Pseudokirchneriella subcapitata
ErC50 algae	0,0538 mg/l
NOEC chronic algae	0,0156 mg/l Pseudokirchneriella subcapitata (72h)

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Dimantine (124-28-7)	
LC50 - Fish [1]	0,26 mg/l Danio rerio
EC50 - Crustacea [1]	0,0558 mg/l Daphnia magna
EC50 72h - Algae [1]	0,0165 mg/l
NOEC chronic crustacea	0,036 mg/l Daphnia magna (21d)
NOEC chronic algae	0,00256 mg/l (72h)
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)	
LC50 - Fish [1]	0,33 mg/l Brachydanio rerio (zebra-fish)
EC50 - Crustacea [1]	0,163 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0,03 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	0,0169 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine	
LC50 - Fish [1]	2,14 mg/l Danio rerio
EC50 - Crustacea [1]	1,05 mg/l
EC50 72h - Algae [1]	0,0544 mg/l
NOEC chronic crustacea	1,22 mg/l Daphnia magna (21d)
NOEC chronic algae	0,0421 mg/l Raphidocelis subcapitata (72h)
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
LC50 - Fish [1]	> 100 mg/l Fathead minnow - Pimephales promelas, OECD TG 203
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna (Water flea) OECD Test Guideline 202
EC50 72h - Algae [1]	> 100 mg/l Pseudokirchneriella subcapitata, OECD TG 201
NOEC (chronic)	> 10 mg/l Daphnia magna
NOEC chronic fish	> 1000 mg/l Pimephales promelas
NOEC chronic crustacea	10 mg/l Daphnia magna (Water flea) OECD Test Guideline 211 (21d)
12.2. Persistence and degradability	
PM Xeramic KZ Kart Gear Oil	
Persistence and degradability	Rapidly degradable
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	31 % OECD TG 301 F (28d)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)	
Persistence and degradability	Rapidly degradable
Biodegradation	31 %
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	31 % 28 d OECD 301F

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<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)</b>	
Persistence and degradability	Not readily biodegradable.
Biodegradation	9,6 % OECD TG 301 C (28d)
<b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b>	
Persistence and degradability	Rapidly degradable
Biodegradation	31 % OECD TG 301 F (28d)
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (61791-44-4)</b>	
Persistence and degradability	Biodegradable.
Biodegradation	61 – 65 % OECD TG 301 D (28d)
<b>Dimantine (124-28-7)</b>	
Persistence and degradability	Readily biodegradable.
Biodegradation	68 % OECD 301D (28d)
<b>2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)</b>	
Persistence and degradability	Not readily biodegradable.
Biodegradation	1 % OECD TG 301 B, 1 %, 28 d
<b>3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine</b>	
Persistence and degradability	Biodegradable.
Biodegradation	68 % OECD 301D
<b>2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs. (92257-31-3)</b>	
Persistence and degradability	Not readily biodegradable, May cause long-term adverse effects in the environment.
Biodegradation	6 % 28d - OECD richtlijn 301 B
<b>Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)</b>	
Persistence and degradability	Rapidly degradable
Biodegradation	31 % OECD 301F 28d
<b>12.3. Bioaccumulative potential</b>	
<b>Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)</b>	
Bioconcentration factor (BCF REACH)	27,54
Partition coefficient n-octanol/water (Log Kow)	4,1
Bioaccumulative potential	Bioaccumulative potential.
<b>Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	> 6
<b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (61791-44-4)</b>	
BCF - Fish [1]	110,2 mg/l
Partition coefficient n-octanol/water (Log Kow)	3,6
<b>Dimantine (124-28-7)</b>	
Partition coefficient n-octanol/water (Log Pow)	> 6,91

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2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)	
Partition coefficient n-octanol/water (Log Kow)	> 7
3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine	
Partition coefficient n-octanol/water (Log Pow)	-0,34 @25°C
2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar',ar''-Me derivs. (92257-31-3)	
Partition coefficient n-octanol/water (Log Kow)	≥ 4
Bioaccumulative potential	Not established.
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
Partition coefficient n-octanol/water (Log Pow)	> 6

### 12.4. Mobility in soil

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)	
Ecology - soil	Adsorbs into the soil.
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)	
Ecology - soil	Adsorbs into the soil.

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
European List of Waste (LoW, EC 2000/532)	: 13 02 06* - synthetic engine, gear and lubricating oils
HP Code	: HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	IATA	ADN	RID
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 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)

##### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) 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)

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### National regulations

#### Germany

- Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

- ABM category : Z(2) - biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/reprotoxicity/bioacumulative potential or toxicity)  
Ministry's list of carcinogens : Distillates (petroleum), hydrotreated heavy paraffinic, Distillates (petroleum), hydrotreated light paraffinic, 2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar', ar''-Me derivs., Distillates (petroleum), hydrotreated light naphthenic are listed  
Ministry's list of mutagens : Distillates (petroleum), hydrotreated heavy paraffinic, Distillates (petroleum), hydrotreated light paraffinic, 2-Naphthalenol, 1-[[4-(phenylazo)phenyl]azo]-, ar-heptyl ar', ar''-Me derivs., Distillates (petroleum), hydrotreated light naphthenic are listed  
NON-exhaustive list of reproductive toxins - Breastfeeding : None of the components are listed  
NON-exhaustive list of reproductive toxins - Fertility : None of the components are listed  
NON-exhaustive list of reproductive toxins - Evolution : None of the components are listed

#### Denmark

- Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

#### Poland

- Polish National Regulations : Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).  
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).  
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging 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 waste (J. o L. 2014, item 1923).  
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).  
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).  
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)  
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).  
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).  
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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### SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
	Supersedes	Modified
	Revision date	Modified
	Flammability (solid, gas)	Added
1.2	Intended for general public	Added
1.2	Function or use category	Added
1.2	Main use category	Modified
2.1	Adverse physicochemical, human health and environmental effects	Added
2.1	Intended for general public	Added
2.2	Precautionary statements (CLP)	Modified
4.1	First-aid measures after skin contact	Added
4.1	First-aid measures after inhalation	Added
4.1	First-aid measures after ingestion	Added
4.1	First-aid measures after eye contact	Added
4.3	Other medical advice or treatment	Added
5.1	Suitable extinguishing media	Added
5.1	Unsuitable extinguishing media	Modified
5.2	Hazardous decomposition products in case of fire	Added
5.3	Protection during firefighting	Added
5.3	Firefighting instructions	Added
5.3	Precautionary measures fire	Added
6.1	Protective equipment	Added
6.1	Emergency procedures	Added
6.1	Protective equipment	Added
6.2	Environmental precautions	Added
6.3	Methods for cleaning up	Added
6.3	Other information	Added
6.3	For containment	Added
6.4	Reference to other sections (8, 13)	Added
7.1	Precautions for safe handling	Modified
7.1	Hygiene measures	Added
7.1	Handling temperature	Added
7.2	Storage conditions	Added
7.2	Storage temperature	Modified
7.2	Special rules on packaging	Added
7.2	Storage area	Added

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Indication of changes		
Section	Changed item	Comments
7.2	Technical measures	Added
8.2	Skin and body protection	Added
8.2	Environmental exposure controls	Added
8.2	Respiratory protection	Added
8.2	Hand protection	Added
8.2	Eye protection	Added
8.2	Appropriate engineering controls	Added
8.2	Personal protective equipment	Added
9.1	Density	Modified
9.1	Viscosity, kinematic	Modified
10.1	Reactivity	Added
10.2	Chemical stability	Added
10.3	Possibility of hazardous reactions	Added
10.4	Conditions to avoid	Added
10.6	Hazardous decomposition products	Added
12.1	Ecology - general	Added
13.1	Waste treatment methods	Added
15.2	Chemical safety assessment	Added
16	Abbreviations and acronyms	Added

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose



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### Abbreviations and acronyms:

LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

### Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
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
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H361f	Suspected of damaging fertility.
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.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Repr. 2	Reproductive toxicity, Category 2

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Full text of H- and EUH-statements:	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

Safety Data Sheet (SDS), EU

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