

SAFETY DATA SHEET

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

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

1.1 Product identifier

Product form	Mixture
Trade name	AISIN ATF 6+ FE
Product code	99.00.62
Type of product	Lubricants
Product group	Trade product

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

Relevant identified uses

Main use category	Industrial use, Professional use, Consumer use
Use of the substance/mixture	Transmission oil

1.3 Details of the supplier of the safety data sheet

Company name and address

AISIN Europe S.A.
Avenue de l'Industrie 19 - 1420 Braine L'Alleud - Belgium
Tel. : +32 2 387 01 10

More information

AISIN Europe Aftermarket - www.aisinaftermarket.eu
Tel: +32 2 387 01 36 - am.contact@aisin-europe.com

1.4 Emergency telephone number

No additional information available

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, Category 3	H412
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Full text of H- and EUH-statements : see section 16

Adverse physicochemical, human health and environmental effects To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice. Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard statements (CLP)	H412 - Harmful to aquatic life with long lasting effects.
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Precautionary statements (CLP)

P273 - Avoid release to the environment. P501 - Dispose of contents/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

Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII

Dimantine (124-28-7), Distillates (petroleum), hydrotreated light paraffinic (64742-55-8), Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0), Reaction products of diphenylamine with nonene, branched, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII

Dimantine (124-28-7), Distillates (petroleum), hydrotreated light paraffinic (64742-55-8), Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0), Reaction products of diphenylamine with nonene, branched, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

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 : Highly refined mineral oils and additives.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (Note L)	CAS-No.: 72623-87-1 EC-No.: 276-738-4 EC Index-No.: 649-483-00-5 REACH-no: 01-2119474889-13	25 – 50	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light paraffinic (Note L)	CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3 REACH-no: 01-2119487077-29	1 – 5	Asp. Tox. 1, H304
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivatives, C10-rich	CAS-No.: 398141-87-2 EC-No.: 800-172-4 REACH-no: 01-2119969520-35	0,3 – 2,5	Aquatic Chronic 2, H411
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (Note L)	CAS-No.: 72623-86-0 EC-No.: 276-737-9 EC Index-No.: 649-482-00-X REACH-no: 01-2119474878-16	0,3 – 2,5	Asp. Tox. 1, H304
Reaction products of diphenylamine with nonene, branched	EC-No.: 701-385-4 REACH-no: 01-2119488911-28	0,3 – 0,99	Repr. 2, H361f
Dimantine	CAS-No.: 124-28-7 EC-No.: 204-694-8 REACH-no: 01-2119486676-20	< 0,3	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	CAS-No.: 1218787-32-6 EC-No.: 620-540-6 REACH-no: 01-2119510877-33	< 0,3	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, 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 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.: 27136-73-8 EC-No.: 202-414-9 REACH-no: 01-2119777867-13	< 0,1	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	CAS-No.: 27136-73-8 EC-No.: 202-414-9 REACH-no: 01-2119777867-13	(10 ≤ C < 100) STOT RE 2; H373

Comments : The highly refined mineral oil contains <3% (w/w) DMSO extract, according to IP346.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aid measures general	If you feel unwell, seek medical advice.
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.
Self protection of the first-aiders	First-aiders should pay attention to their own protection and use the recommended personal protective equipment (see section 8).

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	None under normal conditions.
Symptoms/effects after skin contact	None under normal conditions.
Symptoms/effects after eye contact	None under normal conditions.
Symptoms/effects after ingestion	None under normal conditions.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. 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 heavy water stream.

5.2 Special hazards arising from the substance or mixture

Fire hazard	Combustible liquid.
Explosion hazard	No direct explosion hazard.
Hazardous decomposition products in case of fire	Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.

5.3 Advice for firefighters

Firefighting instructions	Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
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 : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

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".
Emergency procedures	Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

For containment	Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Additional hazards when processed	Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling	Provide good ventilation in process area to prevent formation of vapour.
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, including any incompatibilities

Technical measures	Keep in a cool, well-ventilated place away from heat.
Storage conditions	Keep container closed when not in use. Keep in a cool, well-ventilated place away from heat.
Storage temperature	0 – 40 °C
Packaging materials	Always store product in container of same material as original container.

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

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EU - Indicative Occupational Exposure Limit (IOEL)

Exposure limits/standards for materials that can be formed when handling this product. When mists/aerosols can occur the following is recommended

5 mg/m³ - ACGIH TLV (inhalable fraction).

8.2 Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.

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

Hand protection

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	≥0.35		EN ISO 374

Other skin protection

Materials for protective clothing:

Wear suitable protective clothing

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

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	characteristic.
Odour threshold	Not available
Melting point	Not applicable
Freezing point	-48 °C - ASTM D5950 (pour point)
Boiling point	Not available
Flammability	Not applicable
Explosive properties	Presents no particular fire or explosion hazard.
Lower explosion limit	Not available
Upper explosion limit	Not available
Flash point	212 °C - ASTM D92 (COC)
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	Not available
Viscosity, kinematic	29,6 mm ² /s (40 °C) - ASTM D7042
Solubility	Water: Insoluble / Slightly miscible
Partition coefficient n-octanol/water (Log Kow)	Not available
Vapour pressure	Not available
Vapour pressure at 50°C	Not available
Density	0,845 kg/l (15 °C) - ASTM D4052
Relative density	Not available
Relative vapour density at 20°C	Not available
Particle characteristics	Not applicable

9.2 Other information

Other safety characteristics

VOC content : 0 %

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

Reacts violently with (strong) oxidizers.

10.4 Conditions to avoid

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

10.5 Incompatible materials

No additional information available

10.6 Hazardous decomposition products

No decomposition if stored normally.

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

Dimantine (124-28-7)

LD50 oral rat	1230 mg/kg
LD50 dermal rabbit	8000 mg/kg

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

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

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

LD50 oral rat	10 ml/kg
LD50 dermal rabbit	> 4000 mg/kg bodyweight

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

LD50 oral rat	> 5000 mg/kg (OECD 401 method)
LD50 dermal rabbit	> 2000 mg/kg (OECD 402 method)
LC50 Inhalation - Rat	> 5,53 mg/l (OECD 403 method)

3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine

LD50 oral rat	300 – 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity), Guideline: other:
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2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (27136-73-8)

LD50 oral rat	1265 mg/kg
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Reaction products of diphenylamine with nonene, branched

LD50 oral rat	5000 mg/kg
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Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
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LD50 dermal rabbit	> 2000 mg/kg (OECD 402 method)
LC50 Inhalation - Rat	5,53 mg/l/4h (OECD 403 method)

Skin corrosion/irritation : Not classified

Dimantine (124-28-7)	
pH	10,1 Temp.: 20 °C Concentration: 5 other:
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (27136-73-8)	
pH	11,1 Remarks on result: 'other:'

Serious eye damage/irritation : Not classified

Dimantine (124-28-7)	
pH	10,1 Temp.: 20 °C Concentration: 5 other:
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (27136-73-8)	
pH	11,1 Remarks on result: 'other:'

Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified

Dimantine (124-28-7)	
NOAEL (chronic, oral, animal/male, 2 years)	42,3 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:
NOAEL (chronic, oral, animal/female, 2 years)	52,6 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:

Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
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)
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (27136-73-8)	
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:
STOT-repeated exposure	May cause damage to organs (digestive tract, thymus) through prolonged or repeated exposure (oral).
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)	
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)

Aspiration hazard : Not classified

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Viscosity, kinematic	29,6 mm²/s (40 °C) - ASTM D7042
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
Viscosity, kinematic	< 20,5 mm²/s

Aliphatic, alicyclic or aromatic hydrocarbon	Yes
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)	
Viscosity, kinematic	< 20,5 mm ² /s (40 °C) - ASTM D7042
Aliphatic, alicyclic or aromatic hydrocarbon	Yes

2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (27136-73-8)	
Viscosity, kinematic	35,85 mm ² /s Temp.: '40°C' Parameter: 'm ² /sm ² /s'
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)	
Viscosity, kinematic	< 20,5 mm ² /s (40 °C) - ASTM D7042
Aliphatic, alicyclic or aromatic hydrocarbon	Yes

11.2 Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1 Toxicity

Ecology - general	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. 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.

Dimantine (124-28-7)	
LC50 - Fish [1]	0,26 mg/l (96 h, Danio rerio)
EC50 - Crustacea [1]	0,0558 mg/l (48 h, Daphnia magna)
EC50 72h - Algae [1]	0,0165 mg/l (72 h, Algae)
LOEC (chronic)	0,108 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0,036 mg/l (21 d, Daphnia, magna)
NOEC chronic crustacea	0,036 mg/l (72 h, Daphnia magna)
NOEC chronic algae	0,00256 mg/l 72 hours

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
LC50 - Fish [1]	> 100 mg/l 96h
EC50 - Crustacea [1]	> 10000 mg/l
EC50 72h - Algae [1]	≥ 100 mg/l
NOEC chronic crustacea	10 mg/l 21d

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivatives, C10-rich (398141-87-2)	
LC50 - Fish [1]	2,4 mg/l
EC50 - Crustacea [1]	4,6 mg/l
EC50 72h - Algae [1]	63 mg/l
NOEC chronic algae	0,313 mg/l

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	> 10000 mg/l
NOEC (acute)	≥ 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 211 method)
NOEC chronic fish	> 1000 mg/l

NOEC chronic crustacea	> 10 mg/l (Daphnia magna, 21d) (OECD 211 method)
NOEC chronic algae	≥ 100 mg/l
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)	
LC50 - Fish [1]	0,1 mg/l
EC50 - Crustacea [1]	0,043 mg/l
EC50 72h - Algae [1]	0,0538 mg/l
ErC50 algae	0,0538 mg/l
NOEC chronic crustacea	0,0107 mg/l
NOEC chronic algae	0,0156 mg/l
3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine	
LC50 - Fish [1]	2,22 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
LC50 - Fish [2]	2,14 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	1,05 mg/l
EC50 - Other aquatic organisms [1]	23,6 mg/l
ErC50 algae	0,0544 mg/l
NOEC chronic crustacea	0,738 mg/l
NOEC chronic algae	0,0421 mg/l
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (27136-73-8)	
LC50 - Fish [1]	0,33 mg/l
EC50 - Crustacea [1]	0,163 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [2]	0,0169 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	0,03 mg/l
NOEC chronic algae	0,014 mg/l
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)	
LC50 - Fish [1]	> 100 mg/l (Pimephales promelas, 96h) (OECD 203 method)
LC50 - Other aquatic organisms [1]	> 10000 mg/l (Gammarus pulex, 48h) (OECD 202 method)
NOEC (acute)	≥ 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 201 method)

12.2 Persistence and degradability

AISIN ATF 6+ FE	
Persistence and degradability	Not rapidly degradable
Dimantine (124-28-7)	
Persistence and degradability	Rapidly degradable
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
Persistence and degradability	Not rapidly degradable
Biodegradation	31 % (OECD 301F method)
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivatives, C10-rich (398141-87-2)	
Persistence and degradability	Not rapidly degradable
Biodegradation	9,6 % MITI 1 (28d)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)	

Persistence and degradability	Not readily biodegradable.
Biodegradation	31 % (28d) (OECD 301F method)
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)	
Persistence and degradability	Rapidly degradable
Biodegradation	63 % (28d)
3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine	
Persistence and degradability	Not rapidly degradable
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (27136-73-8)	
Persistence and degradability	Not rapidly degradable
Reaction products of diphenylamine with nonene, branched	
Persistence and degradability	Not rapidly degradable
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)	
Persistence and degradability	Not rapidly degradable
Biodegradation	31 % (28d) (OECD 301F method)

12.3 Bioaccumulative potential

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
Partition coefficient n-octanol/water (Log Pow)	> 6
Bioaccumulative potential	Not established.
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivatives, C10-rich (398141-87-2)	
Bioconcentration factor (BCF REACH)	1,4 (28 d)
Partition coefficient n-octanol/water (Log Kow)	4,1 octanol/water coefficient (0,1 d)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)	
Partition coefficient n-octanol/water (Log Kow)	> 6
Bioaccumulative potential	Bioaccumulative potential.
Reaction products of diphenylamine with nonene, branched	
Partition coefficient n-octanol/water (Log Pow)	7,58 – 11,87

12.4 Mobility in soil

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)	
Ecology - soil	Insoluble in water.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)	
Mobility in soil	Product adsorbs onto the soil

12.5 Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Dimantine (124-28-7), Distillates (petroleum), hydrotreated light paraffinic (64742-55-8), Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0), Reaction products of diphenylamine with nonene, branched, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Dimantine (124-28-7), Distillates (petroleum), hydrotreated light paraffinic (64742-55-8), Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0), Reaction products of diphenylamine with nonene, branched, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

12.6 Endocrine disrupting properties

No additional information available

12.7 Other adverse effects

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

Other information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Regional waste regulation	Disposal must be done according to official regulations.
Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations.
Additional information	Do not re-use empty containers.
Ecological waste information	The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself.
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 regulated for transport				
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6 Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport
Not regulated

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)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Distillates (petroleum), hydrotreated light paraffinic ; Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based ; 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol ; 3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine ; 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol ; Reaction products of diphenylamine with nonene, branched ; Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10
Reference code	Applicable on	Entry title or description
3(c)	AISIN ATF 6+ FE ; Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivatives, C10-rich ; 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol ; 3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine ; 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

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 (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590) Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 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

VOC Directive (2004/42)

VOC content : 0 %

Explosives Precursors Regulation (EU 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 (EC 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)

15.2 Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information**Indication of changes**

Section	Changed item	Comments
4	Self protection of the first-aider	Added
4.2	Symptoms/effects after inhalation	Modified
4.3	Other medical advice or treatment	Modified
13.1	Ecology - waste materials	Added
Section	Changed item	Comments
16	Abbreviations and acronyms	Modified

Abbreviations and acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists
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)
CAS-No.	Chemical Abstracts Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
EWC	European waste catalogue
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

LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
PPE	Personal protection equipment
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TF	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	Unique Formula Identifier

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
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Repr. 2	Reproductive toxicity, Category 2
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
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.

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.