

SAFETY DATA SHEET

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

Version: 2.1

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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 Premium ATF 6
Product code	99.00.63
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 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)	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.
EUH-statements	EUH208 - Contains 2-tetradecyloxirane, reaction products with boric acid, N,N-dicocoalkyl 3-amino-propane-1,2-diol. May produce an allergic reaction.

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	Distillates (petroleum), hydrotreated light naphthenic (64742-53-6), Distillates (petroleum), hydrotreated light paraffinic (64742-55-8), Methyl-1H-benzotriazole (29385-43-1)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Distillates (petroleum), hydrotreated light naphthenic (64742-53-6), Distillates (petroleum), hydrotreated light paraffinic (64742-55-8), Methyl-1H-benzotriazole (29385-43-1)

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]
Distillates (petroleum), hydrotreated heavy paraffinic (Note L)	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627-25	50 – 80	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light naphthenic (Note L)	CAS-No.: 64742-53-6 EC-No.: 265-156-6 EC Index-No.: 649-466-00-2 REACH-no: 01-2119480375-34	5 – 10	Asp. Tox. 1, H304
Blend of mineral oils * (*) (Note L)	-	2,5 – 10	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
1-(tert-dodecylthio)propan-2-ol	CAS-No.: 67124-09-8 EC-No.: 266-582-5 REACH-no: 01-2119953277-30	0,3 – 0,99	Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
N,N-dicocoalkyl 3-amino-propane-1,2-diol	CAS-No.: 897393-64-5 EC-No.: 482-000-4 REACH-no: 01-0000020142-86	0,1 – 0,99	Skin Sens. 1, H317 Aquatic Chronic 3, H412

Methyl-1H-benzotriazole	CAS-No.: 29385-43-1 EC-No.: 249-596-6 REACH-no: 01-2119979081-35	< 0,3	Acute Tox. 4 (Oral), H302 Repr. 2, H361d Aquatic Chronic 2, H411
2-tetradecyloxirane, reaction products with boric acid	EC-No.: 701-392-2 REACH-no: 01-2119976364-28	< 0,3	Skin Sens. 1B, H317
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	< 0,1	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) 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 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 (%)
1-(tert-dodecylthio)propan-2-ol	CAS-No.: 67124-09-8 EC-No.: 266-582-5 REACH-no: 01-2119953277-30	(14,2 ≤ C < 100) Skin Sens. 1B; H317

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

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Contains one or more of the following CAS-numbers (REACH registration numbers):

64741-88-4 (01-2119488706-23), 64741-89-5 (01-2119487067-30), 64741-95-3 (01-2119487081-40), 64741-96-4 (01-2119483621-38), 64741-97-5 (01-2119480374-36), 64742-01-4 (01-2119488707-21), 64742-52-5 (01-2119467170-45), 64742-53-6 (01-2119480375-34), 64742-54-7 (01-2119484627-25), 64742-55-8 (01-2119487077-29), 64742-56-9 (01-2119480132-48), 64742-57-0 (01-2119489287-22), 64742-62-7 (01-2119480472-38), 64742-65-0 (01-2119471299-27), 64742-71-8 (01-2119485040-48), 72623-85-9 (01-2119555262-43), 72623-86-0 (01-2119474878-16), 72623-87-1 (01-2119474889-13), 74869-22-0 (01-2119495601-36)

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 aid workers will be equipped with suitable personal protective equipment.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects	No additional information available.
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	Toxic fumes may be released. 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.
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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

AISIN Premium ATF 6	
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/m ³ - ACGIH TLV (inhalable fraction).
Methyl-1H-benzotriazole (29385-43-1)	
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/m ³ - 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	-57 °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	190 °C - ASTM D92 (COC)
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	Not available
Viscosity, kinematic	35,8 mm²/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	0,861 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

No dangerous reactions known under normal conditions of use. 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

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)

LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight
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

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

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

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

LD50 oral rat	> 5000 mg/kg
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LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	5,53 mg/l/4h
Methyl-1H-benzotriazole (29385-43-1)	
LD50 oral rat	> 720 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 1730 mg/m ³ (1h)
Blend of mineral oils *	
LD50 oral rat	> 5000 mg/kg Data from similar product
LD50 dermal rabbit	> 5000 mg/kg Data from similar product
LC50 Inhalation - Rat (Dust/Mist)	> 5 mg/l/4h Data from similar product
1-(tert-dodecylthio)propan-2-ol (67124-09-8)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: other:
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 434 (Acute Dermal Toxicity - Fixed Dose Procedure)
N,N-dicocoalkyl 3-amino-propane-1,2-diol (897393-64-5)	
LD50 oral rat	> 2500 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)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)	
LD50 oral rat	1265 mg/kg
Skin corrosion/irritation : Not classified	
Methyl-1H-benzotriazole (29385-43-1)	
pH	5 – 6
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)	
pH	11,1 Remarks on result: 'other:'
Serious eye damage/irritation : Not classified	
Methyl-1H-benzotriazole (29385-43-1)	
pH	5 – 6
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)	
pH	11,1 Remarks on result: 'other:'
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
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)

Methyl-1H-benzotriazole (29385-43-1)	
NOAEL (oral, rat, 90 days)	≈ 150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
1-(tert-dodecylthio)propan-2-ol (67124-09-8)	
NOAEL (oral, rat, 90 days)	167 mg/kg bodyweight Animal: rat, Guideline: other:
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)	
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).

Aspiration hazard : Not classified

AISIN Premium ATF 6	
Viscosity, kinematic	35,8 mm ² /s (40 °C) - ASTM D7042
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
Viscosity, kinematic	9 mm ² /s
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Viscosity, kinematic	< 20,5 mm ² /s
Aliphatic, alicyclic or aromatic hydrocarbon	Yes
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
Viscosity, kinematic	< 20,5 mm ² /s
Aliphatic, alicyclic or aromatic hydrocarbon	Yes
Methyl-1H-benzotriazole (29385-43-1)	
Viscosity, kinematic	Not applicable
Blend of mineral oils *	
Viscosity, kinematic	< 20,5 mm ² /s
Aliphatic, alicyclic or aromatic hydrocarbon	Yes
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)	
Viscosity, kinematic	35,85 mm ² /s Temp.: '40°C' Parameter: 'm ² /sm ² /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.

AISIN Premium ATF 6	
LC50 - Fish [1]	> 100 mg/l The data are derived from the evaluations or test results achieved with similar products

EC50 - Crustacea [1]	> 100 mg/l The data are derived from the evaluations or test results achieved with similar products
EC50 72h - Algae [1]	> 100 mg/l The data are derived from the evaluations or test results achieved with similar products

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)

LC50 - Fish [1]	> 100 mg/l (96 h)
EC50 - Crustacea [1]	> 10 g/l
EC50 72h - Algae [1]	> 100 mg/l
NOEC (acute)	≥ 100 (72h)

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

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

LC50 - Fish [1]	> 100 mg/l (Pimephales promelas, 96h) (OECD 203 method)
EC50 - Crustacea [1]	> 10000 mg/l (Gammarus pulex, 48h) (OECD 202 method)
EC50 72h - Algae [1]	> 100 mg/l
NOEC (acute)	≥ 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 201 method)
NOEC chronic crustacea	10 mg/l (Daphnia magna, 21d) (OECD 211 method)

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

Methyl-1H-benzotriazole (29385-43-1)

LC50 - Fish [1]	55 mg/l Test organisms (species): Cyprinodon variegatus
EC50 - Other aquatic organisms [1]	15,8 mg/l Test organisms (species): other aquatic crustacea:
EC50 - Other aquatic organisms [2]	8,58 mg/l Test organisms (species): other aquatic crustacea:
EC50 72h - Algae [1]	53 mg/l Test organisms (species): Skeletonema costatum
LOEC (chronic)	37,6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	18,4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic crustacea	0,4 mg/l (21d)
NOEC chronic algae	1,18 mg/l 72 hours

Blend of mineral oils *

LC50 - Fish [1]	> 100 mg/l Data from similar product
EC50 - Crustacea [1]	> 10000 mg/l Data from similar product
EC50 72h - Algae [1]	> 100 mg/l Data from similar product
NOEC chronic crustacea	> 10 mg/l

NOEC chronic algae	> 10 mg/l (Water flea (Daphnia magna), 21 d)
1-(tert-dodecylthio)propan-2-ol (67124-09-8)	
LC50 - Fish [1]	0,75 mg/l (Oncorhynchus mykiss, 96h) (OECD 203 method)
EC50 - Crustacea [1]	0,58 mg/l (Daphnia magna, 48h) (OECD 202 method)
EC50 96h - Algae [1]	> 100 mg/l (96 h, Scenedesmus quadricauda)
NOEC chronic crustacea	0,75 mg/l (21d, Daphnia magna)
2-tetradecyloxirane, reaction products with boric acid	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	> 100 mg/l
EC50 72h - Algae [1]	> 100 mg/l
NOEC chronic crustacea	10 mg/l (21d)
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
N,N-dicocoalkyl 3-amino-propane-1,2-diol (897393-64-5)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	230 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	10 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	16 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)	
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

12.2 Persistence and degradability

AISIN Premium ATF 6	
Persistence and degradability	Not rapidly degradable
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
Persistence and degradability	Not readily biodegradable, Inherently biodegradable.
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)

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Persistence and degradability	Not rapidly degradable
Biodegradation	31 % (28d) (OECD 301F method)
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
Persistence and degradability	Not rapidly degradable
Biodegradation	31 % (OECD 301F method)
Methyl-1H-benzotriazole (29385-43-1)	
Persistence and degradability	Not rapidly degradable
Blend of mineral oils *	
Persistence and degradability	Not rapidly degradable
1-(tert-dodecylthio)propan-2-ol (67124-09-8)	
Persistence and degradability	Not rapidly degradable
Biodegradation	5,9 % (Manometric respirometry, 28d.)
2-tetradecyloxirane, reaction products with boric acid	
Persistence and degradability	Not rapidly degradable
Biodegradation	17,3 %
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)	
Persistence and degradability	Rapidly degradable
Biodegradation	63 % (28d)
N,N-dicocoalkyl 3-amino-propane-1,2-diol (897393-64-5)	
Persistence and degradability	Not rapidly degradable
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)	
Persistence and degradability	Not rapidly degradable

12.3 Bioaccumulative potential

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
Bioaccumulative potential	Bioaccumulative potential.
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)
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	
Partition coefficient n-octanol/water (Log Pow)	> 6
Bioaccumulative potential	Not established.
Methyl-1H-benzotriazole (29385-43-1)	
Partition coefficient n-octanol/water (Log Pow)	1,081 (25°C) [OECD 117]
1-(tert-dodecylthio)propan-2-ol (67124-09-8)	
Partition coefficient n-octanol/water (Log Kow)	5,7 (octanol/water, 0.1d.)
2-tetradecyloxirane, reaction products with boric acid	
Partition coefficient n-octanol/water (Log Pow)	9,4 at 40 °C

12.4 Mobility in soil

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
Ecology - soil	Insoluble in water.

12.5 Results of PBT and vPvB assessment

Component	
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Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Distillates (petroleum), hydrotreated light naphthenic (64742-53-6), Distillates (petroleum), hydrotreated light paraffinic (64742-55-8), Methyl-1H-benzotriazole (29385-43-1)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Distillates (petroleum), hydrotreated light naphthenic (64742-53-6), Distillates (petroleum), hydrotreated light paraffinic (64742-55-8), Methyl-1H-benzotriazole (29385-43-1)

12.6 Endocrine disrupting properties

No additional information available

12.7 Other adverse effects

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)

Other information	Avoid release to the environment.
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Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)

Other information	Avoid release to the environment.
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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Regional waste regulation	Disposal must be done according to official regulations.
Waste treatment methods	Do not allow into drains or water courses. 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.
European List of Waste (LoW, EC 2000/532)	13 02 05* - mineral-based non-chlorinated 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 naphthenic ; Distillates (petroleum), hydrotreated heavy paraffinic ; Distillates (petroleum), hydrotreated light paraffinic ; Blend of mineral oils * ; 1-(tert-dodecylthio)propan-2-ol ; 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol ; N,N-dicocoalkyl 3-amino-propane-1,2-diol ; 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 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 Premium ATF 6 ; Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivatives, C10-rich ; 1-(tert-dodecylthio)propan-2-ol ; 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol ; N,N-dicocoalkyl 3-amino-propane-1,2-diol ; 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)

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)

National regulations

France

15.2 Chemical safety assessment

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out:

Distillates (petroleum), hydrotreated light naphthenic

Methyl-1H-benzotriazole

SECTION 16: Other information

Indication of changes

Section	Changed item	Comments
4.2	Symptoms/effects after inhalation	Modified
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
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
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. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H361d	Suspected of damaging the unborn child.
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.
EUH208	Contains 2-tetradecyloxirane, reaction products with boric acid, N,N-dicocoalkyl 3-amino-propane-1,2-diol. May produce an allergic reaction.

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.