

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 06/09/2021 Revision date: 27/05/2024 Supersedes version of: 13/04/2023 Version: 2.1

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

1.1. Product identifier

Product form : Mixture

Product name : 43190 - PSF SYNTH

Product code : 43190

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

1.2.1. Relevant identified uses

Intended for general public

Main use category : Industrial use, Professional use, Consumer use

Function or use category : Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

77 Lubricants B.V. NL- 1761 JA The Netherlands T +31 (0)78 6527652

technical@77lubricants.nl - www.77lubricants.nl

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (inhalation:dust,mist) Category 4 H332 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 if inhaled. Harmful to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP) : Warning

Contains : Dec-1-ene, dimers, hydrogenated

Safety Data Sheet

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

Hazard statements (CLP) : H332 - Harmful if inhaled.

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.

P261 - Avoid breathing dust, fume, gas, mist, spray, vapours. P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

2.3. Other hazards

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

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dec-1-ene, dimers, hydrogenated substance with national workplace exposure limit(s) (GB, NL)	EC-No.: 500-228-5 REACH-no: 01-2119537268- 33	≥ 55	Acute Tox. 4 (Inhalation:dust,mist), H332 Asp. Tox. 1, H304
Distillates (petroleum), solvent-dewaxed heavy 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, TR); substance with a Community workplace exposure limit	CAS-No.: 64742-65-0 EC-No.: 265-169-7 EC Index-No.: 649-474-00-6 REACH-no: 01-2119471299- 27	≥1-<10	Not classified
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	CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3 REACH-no: 01-2119487077-	≥1-<5	Not classified
Distillates (petroleum), hydrotreated heavy 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, TR); substance with a Community workplace exposure limit	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 25	≥ 0.3 - < 1	Not classified
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	CAS-No.: 72623-86-0 EC-No.: 276-737-9 EC Index-No.: 649-482-00-X REACH-no: 01-2119474878- 16	≥ 0.3 – < 1	Asp. Tox. 1, H304

Safety Data Sheet

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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	≥ 0.3 – < 1	Aquatic Chronic 2, H411
Distillates (petroleum), solvent-refined heavy paraffinic substance with national workplace exposure limit(s) (BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 64741-88-4 EC-No.: 265-090-8 EC Index-No.: 649-454-00-7 REACH-no: 01-2119488706- 23	≥ 0.1 – < 1	Not classified
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 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
Hydrocarbons, C10-C13, aromatics, <1% naphthalene substance with national workplace exposure limit(s) (AT, BE, CZ, DK, ES, GB, IE, LV, NL, RO, SE, CH); substance with a Community workplace exposure limit	EC-No.: 922-153-0 REACH-no: 01-2119451097- 39	< 0.1	Asp. Tox. 1, H304 Aquatic Chronic 2, H411 (M=0)
naphthalene substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, HU, IE, IT, LV, NL, PL, RO, SE, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 91-20-3 EC-No.: 202-049-5 EC Index-No.: 601-052-00-2 REACH-no: 01-2119561346- 37	< 0.1	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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 : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a

doctor if you feel unwell.

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.

27/05/2024 (Revision date) GB - en 3/18

Safety Data Sheet

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

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.

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.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area. Avoid breathing dust, fume, gas, mist, spray, vapours.

6.1.2. 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".

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Avoid contact with skin and eyes. Ensure good

ventilation of the work station. Use only outdoors or in a well-ventilated area. Avoid

breathing dust, fume, gas, mist, spray, vapours.

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.

7.3. Specific end use(s)

No additional information available

27/05/2024 (Revision date) GB - en 4/18

Safety Data Sheet

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

5.1.1 National occupational exposure and biological limit values			
odrocarbons, C10-C13, aromatics, <1% naphthalene			
U - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA	5 mg/m³		
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA) [1]	5 mg/m³		
WEL STEL (OEL STEL)	10 mg/m³		
naphthalene (91-20-3)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	Naphthalene		
IOEL TWA	50 mg/m³		
IOEL TWA [ppm]	10 ppm		
IOEL STEL	15 mg/m³		
Remark	(Year of adoption 2010)		
Regulatory reference	COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations		
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA) [1]	53 mg/m³		
WEL TWA (OEL TWA) [2]	10 ppm		
WEL STEL (OEL STEL)	80 mg/m³		
WEL STEL (OEL STEL) [ppm]	15 ppm		
Distillates (petroleum), hydrotreated light para	llates (petroleum), hydrotreated light paraffinic (64742-55-8)		
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA	5 mg/m³		
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA) [1]	5 mg/m³		
Distillates (petroleum), hydrotreated heavy pa	raffinic (64742-54-7)		
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA	5 mg/m³		
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA) [1]	5 mg/m³		
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)			
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA [ppm]	50 ppm		
Lubricating oils (petroleum), C15-30, hydrotre	ated neutral oil-based (72623-86-0)		
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA	5 mg/m³		

Safety Data Sheet

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

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	5 mg/m³
IOEL STEL	10 mg/m³
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	5 mg/m³
WEL STEL (OEL STEL)	10 mg/m³
Dec-1-ene, dimers, hydrogenated	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	1 mg/m³
Distillates (petroleum), solvent-refined heavy	paraffinic (64741-88-4)
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	5 mg/m³
IOEL STEL	10 mg/m³
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	5 mg/m³
WEL STEL (OEL STEL)	10 mg/m³

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Use adequate ventilation to keep oil mist below applicable standard. Use splash goggles when eye contact due to splashing is possible. Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

Safety Data Sheet

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

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

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

Hand protection	land protection				
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	5 (> 240 minutes)	<0.35	3 (> 0.65)	EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. 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 : Green.
Odour
Odour threshold : Not available
Melting point : Not applicable
Freezing point : -63 °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

 $\label{eq:Viscosity} \mbox{Viscosity, kinematic} \qquad \qquad : \ \ 21.4 \ \mbox{mm}^2\mbox{/s} \ \mbox{@} \ 40\mbox{°C} \ (\mbox{ASTM D7042})$

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 : 829 kg/m³ @ 15°C (ASTM D4052)

Relative density : Not available
Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

Safety Data Sheet

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

9.2.2. Other safety characteristics

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).

10.5. Incompatible materials

43190 - PSF SYNTH

Strong oxidizing agents. Strong acids.

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) : Harmful if inhaled.

ATE CLP (dust,mist)	2.154 mg/l/4h
Hydrocarbons, C10-C13, aromatics, <1% naph	thalene

LD50 oral (rat)	> 6318 mg/kg OECD TG 401
LD50 dermal (rat)	> 2000 mg/kg OECD TG 402
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 4.778 mg/l/4h OECD TG 403

iaphunaiene (31-20-3)		
LD50 oral (rat)	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
LC50 inhalation (rat) (mg/l)	> 0.4 mg/l air Animal: rat, Guideline: other:EPA TSCA, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)	

ates (petroleum), hydrotreated light paraffinic (64742-55-8)	
> 5000 mg/kg 401 Acute Oral Toxicity Test	
> 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	

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		raffinic (64742-54-7)
	LD50 oral (rat)	> 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test

Safety Data Sheet

Distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)		
LD50 dermal (rabbit)	> 2000 mg/kg 402 Acute Dermal Toxicity Test		
LC50 inhalation (rat) (mg/l)	> 5000 mg/l/4h		
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		
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)	> 5000 mg/kg 402 Acute Dermal Toxicity Test		
LC50 inhalation (rat) (mg/l)	5.53 mg/l 403 Acute Inhalation Toxicity		
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	d) alkyl imino) diethanol (61791-44-4)		
LD50 oral (rat)	≥ 300 - < 2000 mg/kg OECD 401 Test		
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		
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethano	II (95-38-5)		
LD50 oral (rat)	1265 mg/kg bodyweight		
Distillates (petroleum), solvent-dewaxed heav	yy paraffinic (64742-65-0)		
LD50 oral (rat)	> 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test		
LD50 dermal (rabbit)	> 5000 mg/kg 402 Aguta Darmal Taylaity Toot		
LD50 dermai (rabbit)	> 5000 mg/kg 402 Acute Dermal Toxicity Test		
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test		
, ,			
LC50 inhalation (rat) (Vapours - mg/l/4h)			
LC50 inhalation (rat) (Vapours - mg/l/4h) Dec-1-ene, dimers, hydrogenated	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test		
LC50 inhalation (rat) (Vapours - mg/l/4h) Dec-1-ene, dimers, hydrogenated LD50 oral (rat)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test 2000 – 5000 mg/kg bodyweight > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal		
LC50 inhalation (rat) (Vapours - mg/l/4h) Dec-1-ene, dimers, hydrogenated LD50 oral (rat) LD50 dermal (rat)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test 2000 – 5000 mg/kg bodyweight > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) 900 – 5200 mg/l/4h		
LC50 inhalation (rat) (Vapours - mg/l/4h) Dec-1-ene, dimers, hydrogenated LD50 oral (rat) LD50 dermal (rat) LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test 2000 – 5000 mg/kg bodyweight > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) 900 – 5200 mg/l/4h		
LC50 inhalation (rat) (Vapours - mg/l/4h) Dec-1-ene, dimers, hydrogenated LD50 oral (rat) LD50 dermal (rat) LC50 inhalation (rat) (Dust/Mist - mg/l/4h) Distillates (petroleum), solvent-refined heavy	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test 2000 – 5000 mg/kg bodyweight > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) 900 – 5200 mg/l/4h paraffinic (64741-88-4)		
LC50 inhalation (rat) (Vapours - mg/l/4h) Dec-1-ene, dimers, hydrogenated LD50 oral (rat) LD50 dermal (rat) LC50 inhalation (rat) (Dust/Mist - mg/l/4h) Distillates (petroleum), solvent-refined heavy LD50 oral (rat)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test 2000 – 5000 mg/kg bodyweight > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) 900 – 5200 mg/l/4h paraffinic (64741-88-4) > 5000 mg/kg		
LC50 inhalation (rat) (Vapours - mg/l/4h) Dec-1-ene, dimers, hydrogenated LD50 oral (rat) LD50 dermal (rat) LC50 inhalation (rat) (Dust/Mist - mg/l/4h) Distillates (petroleum), solvent-refined heavy LD50 oral (rat) LD50 dermal (rabbit)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test 2000 – 5000 mg/kg bodyweight > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) 900 – 5200 mg/l/4h paraffinic (64741-88-4) > 5000 mg/kg > 2000 mg/kg		
LC50 inhalation (rat) (Vapours - mg/l/4h) Dec-1-ene, dimers, hydrogenated LD50 oral (rat) LD50 dermal (rat) LC50 inhalation (rat) (Dust/Mist - mg/l/4h) Distillates (petroleum), solvent-refined heavy LD50 oral (rat) LD50 dermal (rabbit) LC50 inhalation (rat) (Mg/l) LC50 inhalation (rat) (Vapours - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test 2000 – 5000 mg/kg bodyweight > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) 900 – 5200 mg/l/4h paraffinic (64741-88-4) > 5000 mg/kg > 2000 mg/kg > 5000 mg/kg		
LC50 inhalation (rat) (Vapours - mg/l/4h) Dec-1-ene, dimers, hydrogenated LD50 oral (rat) LD50 dermal (rat) LC50 inhalation (rat) (Dust/Mist - mg/l/4h) Distillates (petroleum), solvent-refined heavy LD50 oral (rat) LD50 dermal (rabbit) LC50 inhalation (rat) (Mg/l) LC50 inhalation (rat) (Vapours - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test 2000 – 5000 mg/kg bodyweight > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) 900 – 5200 mg/l/4h paraffinic (64741-88-4) > 5000 mg/kg > 2000 mg/kg > 5000 mg/kg > 5000 mg/hd Not classified		
LC50 inhalation (rat) (Vapours - mg/l/4h) Dec-1-ene, dimers, hydrogenated LD50 oral (rat) LD50 dermal (rat) LC50 inhalation (rat) (Dust/Mist - mg/l/4h) Distillates (petroleum), solvent-refined heavy LD50 oral (rat) LD50 dermal (rabbit) LC50 inhalation (rat) (mg/l) LC50 inhalation (rat) (Vapours - mg/l/4h) Skin corrosion/irritation :	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test 2000 – 5000 mg/kg bodyweight > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) 900 – 5200 mg/l/4h paraffinic (64741-88-4) > 5000 mg/kg > 2000 mg/kg > 5000 mg/kg > 5000 mg/hd Not classified		
LC50 inhalation (rat) (Vapours - mg/l/4h) Dec-1-ene, dimers, hydrogenated LD50 oral (rat) LD50 dermal (rat) LC50 inhalation (rat) (Dust/Mist - mg/l/4h) Distillates (petroleum), solvent-refined heavy LD50 oral (rat) LD50 dermal (rabbit) LC50 inhalation (rat) (mg/l) LC50 inhalation (rat) (Vapours - mg/l/4h) Skin corrosion/irritation : 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethano pH Serious eye damage/irritation :	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test 2000 – 5000 mg/kg bodyweight > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) 900 – 5200 mg/l/4h paraffinic (64741-88-4) > 5000 mg/kg > 2000 mg/kg > 5000 mg/m³ 5.53 mg/l/4h Not classified		
LC50 inhalation (rat) (Vapours - mg/l/4h) Dec-1-ene, dimers, hydrogenated LD50 oral (rat) LD50 dermal (rat) LC50 inhalation (rat) (Dust/Mist - mg/l/4h) Distillates (petroleum), solvent-refined heavy LD50 oral (rat) LD50 dermal (rabbit) LC50 inhalation (rat) (mg/l) LC50 inhalation (rat) (Vapours - mg/l/4h) Skin corrosion/irritation : 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanoph	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test 2000 – 5000 mg/kg bodyweight > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) 900 – 5200 mg/l/4h paraffinic (64741-88-4) > 5000 mg/kg > 2000 mg/kg > 5000 mg/m³ 5.53 mg/l/4h Not classified		

Safety Data Sheet

Respiratory or skin sensitisation : Germ cell mutagenicity : Carcinogenicity :	Not classified Not classified Not classified		
	Not classified		
naphthalene (91-20-3)			
LOAEL (animal/female, F0/P)	50 mg/kg bodyweight OECD Guideline 414		
LOAEL (animal/female, F1)	450 mg/kg bodyweight OECD Guideline 414		
NOAEL (animal/female, F0/P)	120 mg/kg bodyweight OECD Guideline 414		
3 · · J · · · J · · · · · · · · · · · ·	Not classified		
	Not classified		
Hydrocarbons, C10-C13, aromatics, <1% naph			
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight OECD Guideline 408		
NOAEL (subchronic, oral, animal/male, 90 days)	300 mg/kg bodyweight		
naphthalene (91-20-3)			
LOAEL (oral, rat, 90 days)	400 mg/kg bodyweight OECD 408		
LOAEC (inhalation, rat, vapour, 90 days)	0.011 mg/l air OECD Guideline 413		
NOAEL (dermal, rat/rabbit, 90 days)	1000 mg/kg bodyweight OECD Guideline 411		
Distillates (petroleum), hydrotreated light para	affinic (64742-55-8)		
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)		
Distillates (petroleum), hydrotreated heavy pa	raffinic (64742-54-7)		
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408		
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)			
LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight			
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 (gastro-intestinal tract, thymus) through prolonged or repeated exposure (oral).		
Distillates (petroleum), solvent-dewaxed heav	y paraffinic (64742-65-0)		
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight		
Aspiration hazard :	Not classified		
43190 - PSF SYNTH			
Viscosity, kinematic	21.4 mm²/s @ 40°C (ASTM D7042)		
Hydrocarbons, C10-C13, aromatics, <1% naphthalene			
Viscosity, kinematic	4.25 mm²/s		
Distillates (petroleum), hydrotreated light para	affinic (64742-55-8)		
Viscosity, kinematic	< 20.5 mm²/s @40°C		
Distillates (petroleum), hydrotreated heavy pa	raffinic (64742-54-7)		
Viscosity, kinematic	≈ 98 mm²/s @ 40°C		

Safety Data Sheet

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

Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)			
Viscosity, kinematic	4.263 – 24.46 mm²/s		
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)			
Viscosity, kinematic	2978 mm²/s 40°C		
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)		
Viscosity, kinematic	35.85 mm²/s		
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)			
Viscosity, kinematic	150 (1.99 – 847) mm²/s @40°C		
Dec-1-ene, dimers, hydrogenated			
Viscosity, kinematic	5 mm²/s @40°C		
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)			
Viscosity, kinematic	28.51 mm²/s @40°C		

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 : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects.

(chronic)

(Citionic)			
Hydrocarbons, C10-C13, aromatics, <1% naphthalene			
LC50 - Fish [1]	3.6 mg/l Oncorhynchus mykiss (OECD 203)		
EC50 - Crustacea [1]	1.1 mg/l OECD 202		
ErC50 algae	3.8 mg/l 72h (Pseudokirchneriella subcapitata, OECD 201)		
NOEC chronic fish	0.103 mg/l 28 d (PETROTOX QSAR)		
NOEC chronic crustacea	0.179 mg/l 21 d (Daphnia magna, OECD 211)		
NOEC chronic algae	0.179 mg/l 72h (Pseudokirchneriella subcapitata, OECD 201)		
naphthalene (91-20-3)			
LC50 - Fish [1]	0.51 mg/l Oncorhynchus mykiss		
EC50 - Crustacea [1]	3.4 mg/l Daphnia magna		
NOEC (chronic)	0.59 mg/l (Daphnia pulex; 125 d)		
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)			
LC50 - Fish [1]	> 100 mg/l Pimephales promelas		
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna		
EC50 72h - Algae [1]	> 100 mg/l Pseudokirchneriella subcapitat		
NOEC chronic fish	1000 mg/l Oncorhynchus mykiss (14d)		
NOEC chronic crustacea 10 mg/l Daphnia magna (21d)			

Safety Data Sheet

Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)				
NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)			
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 mg/l Pseudokirchneriella subcapitat			
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)			
Lubricating oils (petroleum), C15-30, hydrotre	ated neutral oil-based (72623-86-0)			
LC50 - Fish [1]	> 100 mg/l Pimephales promelas			
EC50 - Crustacea [1]	> 10000 mg/l 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)			
2,2'-(C16-18 (evennumbered, C18 unsaturated	l) alkyl imino) diethanol (61791-44-4)			
LC50 - Fish [1]	0.1 mg/kg Brachydanio 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 crustacea	0.0107 mg/l Daphnia magna (21d)			
NOEC chronic algae	0.0156 mg/l Pseudokirchneriella subcapitata (72h)			
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethano	I (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)			
NOEC chronic algae	0.014 mg/l Desmodesmus subspicatus (72h)			
Distillates (petroleum), solvent-dewaxed heav	y paraffinic (64742-65-0)			
LC50 - Fish [1]	> 100 mg/l Pimephales promelas			
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna			

Safety Data Sheet

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)			
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)		
Dec-1-ene, dimers, hydrogenated			
.C50 - Fish [1] 1000 mg/l			
EC50 - Crustacea [1]	1000 mg/l		
EC50 72h - Algae [1]	1000 mg/l		
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)			
LC50 - Fish [1] > 100 mg/l Pimephales promelas			
EC50 - Crustacea [1]	> 10000 mg/l 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)			
12.2. Persistence and degradability			

12.2. Persistence and degradability			
Hydrocarbons, C10-C13, aromatics, <1% naphthalene			
Persistence and degradability	Readily biodegradable.		
Biodegradation	70 % 28d OECD 301F		
naphthalene (91-20-3)			
Persistence and degradability	Not readily biodegradable.		
Biodegradation	2 %		
Distillates (petroleum), hydrotreated light par	affinic (64742-55-8)		
Biodegradation	31 % OECD TG 301 F (28d)		
Distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)		
Persistence and degradability	Not readily biodegradable.		
Biodegradation	31 % OECD TG 301 F (28d)		
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-	isoalkyloxy) derivs., C10-rich (398141-87-2)		
Persistence and degradability	Not readily biodegradable.		
Biodegradation	9.6 % OECD TG 301 C (28d)		
Lubricating oils (petroleum), C15-30, hydrotre	eated neutral oil-based (72623-86-0)		
Persistence and degradability	Not readily biodegradable.		
Biodegradation	31 % 28 d OECD 301F		
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (61791-44-4)			
Persistence and degradability	Biodegradable.		
Biodegradation	61 – 65 % OECD TG 301 D (28d)		
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol (95-38-5)			
Persistence and degradability	Not readily biodegradable.		
Biodegradation	< 20 % OECD 301F (28d)		

Safety Data Sheet

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

Biodegradation	31 % OECD 301F (28d)	
Dec-1-ene, dimers, hydrogenated		
Biodegradation	50 % 28 D	
Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)		
Persistence and degradability	Not readily biodegradable.	
Biodegradation	31 % OECD 301F (28d)	
12.3. Bioaccumulative potential		
Hydrocarbons, C10-C13, aromatics, <1% na	phthalene	
Bioconcentration factor (BCF REACH)	5780	
Partition coefficient n-octanol/water (Log Pow)	6.5	
naphthalene (91-20-3)		
Bioconcentration factor (BCF REACH)	< 100	
Partition coefficient n-octanol/water (Log Pow)	3.01	
Distillates (petroleum), hydrotreated light p	araffinic (64742-55-8)	
Partition coefficient n-octanol/water (Log Pow)	> 6	
Distillates (petroleum), hydrotreated heavy	paraffinic (64742-54-7)	
Partition coefficient n-octanol/water (Log Pow)	3.9 – 6	
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-1	1-isoalkyloxy) derivs., C10-rich (398141-87-2)	
Bioconcentration factor (BCF REACH)	27.54	
Partition coefficient n-octanol/water (Log Kow)	4.1	
Bioaccumulative potential	Bioaccumulative potential.	
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (61791-44-4)		
BCF - Fish [1]	110.2 mg/l	
Partition coefficient n-octanol/water (Log Kow)	3.6	

2-12-hontadoc-8-onyl-2-im	idazolin-1-vl)ethanol (95-38-5)

Partition coefficient n-octanol/water (Log Kow) > 7

Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)

Bioconcentration factor (BCF REACH)

Distillates (petroleum), solvent-refined heavy paraffinic (64741-88-4)

Partition coefficient n-octanol/water (Log Pow) 3.9 - 6

12.4. Mobility in soil

Hydrocarbons, C10-C13, aromatics, <1% naphthalene	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.11 @ 20°C

Safety Data Sheet

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

naphthalene (91-20-3)			
Organic Carbon Normalized Adsorption Coefficient (Log Koc) 2.6			
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich (398141-87-2)			
Ecology - soil Adsorbs into the soil.			
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)			
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 European List of Waste (LoW, EC 2000/532) HP Code

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- : 13 02 06* synthetic engine, gear and lubricating oils
- : HP5 "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.

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 shippin	14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard	14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
No supplementary information available					

14.6. Special precautions for user

Overland transport

Not applicable

Safety Data Sheet

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

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

15.1.1. 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)

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)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes				
Section	Changed item	Change	Comments	
	Revision date	Modified		
	Supersedes	Modified		

Safety Data Sheet

Indication of changes				
Section	Changed item	Change	Comments	
10.5	Incompatible materials	Added		

Abbreviations and acr	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		
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 disrupting properties		

Safety Data Sheet

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

Full text of H- and EUH-statements:		
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4	
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	
Carc. 2	Carcinogenicity, Category 2	
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.	
H332	Harmful if inhaled.	
H351	Suspected of causing cancer.	
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.	
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.