

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: 3454 Issue date: 28/08/2012 Revision date: 09/02/2024 Supersedes version of: 24/01/2022 Version: 4.0

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

1.1. Product identifier

Product form Product name Product code Mixture
44870 - INDUSTRIAL SYSTEM OIL CL 100
44870

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 Function or use category

: Industrial use, Professional use, Consumer use

: Hydraulic fluids 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]

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

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

Adverse physicochemical, human health and environmental effects

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]			
Signal word (CLP)	: -		
Hazard statements (CLP)	: H412 - Harmful to aquatic life with long lasting effects.		
Precautionary statements (CLP)	: P101 - If medical advice is needed, have product container or label at hand.		
	P102 - Keep out of reach of children.		
	P103 - Read carefully and follow all instructions.		
	P273 - Avoid release to the environment.		
	P501 - Dispose of contents and container to hazardous or special waste collection point, in		
	accordance with local, regional, national and/or international regulation.		

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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]
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	≥ 90	Not classified
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	< 0.3	Asp. Tox. 1, H304 Aquatic Chronic 2, H411 (M=0)
N-Phenyl-1-naphthylamin substance with national workplace exposure limit(s) (DE, NL)	CAS-No.: 90-30-2 EC-No.: 201-983-0	< 0.1	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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, 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	< 0.1	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light paraffinic substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SI, SK, IS, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3 REACH-no: 01-2119487077- 29	< 0.1	Not classified
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DK, EE, HR, NL, PL, CH); substance with a Community workplace exposure limit	EC-No.: 920-901-0 REACH-no: 01-2119456810- 40	< 0.1	Asp. Tox. 1, H304
diphenylamine substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, IE, IT, LT, PL, PT, RO, SE, SI, SK, IS, NO, CH, TR); substance with a Community workplace exposure limit	CAS-No.: 122-39-4 EC-No.: 204-539-4 EC Index-No.: 612-026-00-5 REACH-no: 01-2119488966- 13	< 0.1	Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-naphtol substance with national workplace exposure limit(s) (LT, LV, RO)	CAS-No.: 90-15-3 EC-No.: 201-969-4 EC Index-No.: 604-029-00-5	< 0.1	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Oral), H302 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
N-Phenyl-1-naphthylamin	CAS-No.: 90-30-2 EC-No.: 201-983-0	(10 ≤ C < 100) STOT RE 2, H373
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics	EC-No.: 920-901-0 REACH-no: 01-2119456810- 40	(1 ≤ C < 100) EUH066
Full text of H- and EUH-statements: see section 16		

SECTION 4: First aid measures

4.1. Description of first aid measures

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

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.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 Firefighting instructions Protection during firefighting	 Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. 		

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Avoid spilling the product, as this might cause falls.

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6.1.1. For non-emergency personnel Protective equipment Emergency procedures	Wear recommended personal protective equipment.Ventilate spillage area.	
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 Other information	Take up liquid spill into absorbent material.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 stor	age
7.1. Precautions for safe handling	
Precautions for safe handling	 Avoid contact with skin and eyes. Ensure good ventilation of the work station. Wear personal protective equipment.
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, in	ncluding 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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)			
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA 5 mg/m ³			
United Kingdom - Occupational Exposure Limits	United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1] 5 mg/m ³			
Hydrocarbons, C10-C13, aromatics, <1% naphthalene			
EU - Indicative Occupational Exposure Limit (IOEL)			
IOEL TWA 5 mg/m ³			

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Hydrocarbons, C10-C13, aromatics, <1% naphthalene		
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	5 mg/m³	
WEL STEL (OEL STEL)	10 mg/m³	
Distillates (petroleum), hydrotreated light para	affinic (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	
Lubricating oils (petroleum), C15-30, hydrotre	ated neutral oil-based (72623-86-0)	
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	5 mg/m³	
Hydrocarbons, C11-C13, isoalkanes, <2% arou	matics	
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA [ppm]	1200 ppm	
diphenylamine (122-39-4)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	10 mg/m ³	
IOEL STEL	20 mg/m³	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	10 mg/m ³	
WEL STEL (OEL STEL)	20 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:

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):



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8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

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

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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	Not available
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: -15 °C (ASTM D7346)
Boiling point	Not available
Flammability	: Not applicable
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
рН	: Not available
Viscosity, kinematic	: 91.8 mm²/s @ 40°C (ASTM D7042)
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 877 kg/m³ @ 15°C (ASTM D4052)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

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9.2. Other information

- 9.2.1. Information with regard to physical hazard classes
- No additional information available

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

Strong oxidizing agents.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information	
11.1. Information on hazard classes as defined	in Regulation (EC) No 1272/2008
Acute toxicity (dermal)	Not classified Not classified Not classified
Distillates (petroleum), hydrotreated heavy pa	raffinic (64742-54-7)
LD50 oral (rat)	> 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test
LD50 dermal (rabbit)	> 2000 mg/kg 402 Acute Dermal Toxicity Test
LC50 inhalation (rat) (mg/l)	> 5000 mg/l/4h
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test
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
N-Phenyl-1-naphthylamin (90-30-2)	
LD50 oral (rat)	1625 mg/kg Animal: rat, Animal sex: male, 95% CL: 1201 - 2197
LD50 dermal (rabbit)	> 5000 mg/kg
Distillates (petroleum), hydrotreated light para	affinic (64742-55-8)
LD50 oral (rat)	> 5000 mg/kg 401 Acute Oral Toxicity Test

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Serious eye damage/irritation: Not classifiedRespiratory or skin sensitisation: Not classifiedGern cell mutagenicity: Not classifiedCarcinogenicity: Not classifiedReproductive toxicity: Not classifiedN-Phenyl-1-naphthylamin (90-30-2): Not classifiedNOAEL (animal/male, F0/P)< 40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)NOAEL (animal/female, F0/P)< 46 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPP 83-4 (Reproduction Toxicity Test)NOAEL (animal/female, F0/P)< 46 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPP 83-4 (Reproduction Toxicity Test)STOT-single exposure: Not classified1-naphtol (90-15-3)STOT-single exposureMay cause respiratory irritation.	Distillates (petroleum), hydrotreated light para	affinic (64742-55-8)
Lubricating oils (petroleum), C15-30, hydrortexted neutral oil-based (72623-86-0) LD50 oral (rat) > 5000 mg/kg dodyweight 401 Acute Oral Toxicity Test LD50 dermal (rabbit) > 5000 mg/kg d02 Acute Dermal Toxicity Test Hydrocarbons, C11-C13, isoalkanes, <2% aroutics	LD50 dermal (rabbit)	> 5000 mg/kg 402 Acute Dermal Toxicity Test
LD50 oral (rat) > 5000 mg/kg bodyweight 401 Acute Oral Toxichly Test LD50 dermal (rabbit) > 5000 mg/kg 402 Acute Dermal Toxichly Test LC50 inhialation (rat) (Dust/Mist - mg/l4h) > 5.53 mg/l4h 403 Acute Inhialation Toxichly Test Hydrocarbons, C11-C13, isoalkanes, <2%, aromatics	LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test
LD60 dermal (rabbit) > 6000 mg/kg 402 Acute Dermal Toxicity Test LC50 inhalation (rat) (Dust/Mist - mg/l4h) > 5.53 mg/l4h 403 Acute Inhalation Toxicity Test Hydrocarbons, C11-C13, Isoalkanes, <2% arcmatics	Lubricating oils (petroleum), C15-30, hydrotre	ated neutral oil-based (72623-86-0)
LC50 inhalation (rat) (Dust/Mist - mg/t4h) > 5.53 mg/t4h 403 Acute Inhalation Toxicity Test Hydrocarbons, C11-C13, isoalkanes, <2% arcmatics	LD50 oral (rat)	> 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test
Hydrocarbons, C11-C13, Isoalkanos, <2% aromatics LD50 oral (rat) > 5000 mg/kg LD50 dermal (rabbit) > 5000 mg/kg LD50 inhalation (rat) (Dust/Mist - mg/l/4h) > 5 mg/l/4h diphenylamine (122-39-4) LD50 oral (rat) > 8000 mg/kg LD50 dermal (rabbit) > 5000 mg/kg LD50 oral (rat) > 8000 mg/kg LD50 oral (rat) 1870 mg/kg LD50 dermal (rabbit) 800 mg/kg LC50 inhalation (rat) (Dust/Mist - mg/l/4h) > 97 mg/l/4h Skin corrosion/irritation Not classified Respiratory or skin sensitisation Not classified Seriou sey damage/irritation Not classified Reproductive toxicity Not classified NoAEL (animal/male, F0/P) <40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83.4	LD50 dermal (rabbit)	> 5000 mg/kg 402 Acute Dermal Toxicity Test
LD50 oral (rat) > 5000 mg/kg LD50 dermal (rabbit) > 5000 mg/kg LD50 oral (rat) > 5 mg/l4h diphonylamine (122-39-4) > 800 mg/kg LD50 dermal (rabbit) > 8000 mg/kg LD50 dermal (rabbit) > 5000 mg/kg 1 naphtol (90-15-3) Image (120) LD50 oral (rat) 1870 mg/kg LD50 dermal (rabbit) 880 mg/kg LD50 dermal (rabbit) 880 mg/kg LD50 inhalation (rat) (Dust/Mist - mg/l/4h) > 97 mg/l/4h Skin corresion/irritation Not classified Sequinatory on kin sensitisation Not classified Sequindutif male, F0/P) Not classified	LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test
LD60 dermal (rabbit) > 5000 mg/kg LC50 inhalation (rat) (Dust/Mist - mg/l4h) > 5 mg/l4h diphonylamine (122-39-4) > 800 mg/kg LD50 dermal (rabbit) > 5000 mg/kg 1-naphtol (90-15-3) > 5000 mg/kg LD50 dermal (rabbit) 880 mg/kg LC50 inhalation (rat) (Dust/Mist - mg/l4h) > 97 mg/l4h Sinto corresion/initiation Not classified Serious ey damage/initiation Not classified NoAEL (animal/male, F0/P) <40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Ferlity Effects), Guideline: EPA OPP 83-4 (Reproduction and Ferlity Effec	Hydrocarbons, C11-C13, isoalkanes, <2% arou	matics
LC50 inhalation (rat) (Dust/Mist - mg/l/4h) > 5 mg/l/4h diphenylamine (122-39-4) > 800 mg/kg LD50 oral (rat) > 5000 mg/kg 1maphtol (80-15-3) 1870 mg/kg LD50 dermal (rabbit) 880 mg/kg LD50 dermal (rabbit) 880 mg/kg LC50 inhalation (rat) (Dust/Mist - mg/l/4h) > 97 mg/l/4h Skin corrisoin/irritation : Not classified Serious sey damag/irritation : Not classified Carcinogenicity : Not classified Serious sey damag/irritation : Not classified Carcinogenicity : Not classified Serious sey damag/irritation : Not classified Carcinogenicity : Not classified Serious sey damag/irritation : Not classified Serious sey damag/	LD50 oral (rat)	> 5000 mg/kg
Intervention > 800 mg/kg LD50 oral (rat) > 800 mg/kg ID50 dermal (rabbit) > 5000 mg/kg Inaphtol (80-15-3) I870 mg/kg LD50 oral (rat) 1870 mg/kg LD50 dermal (rabbit) 880 mg/kg LC50 inhalation (rat) (Dust/Mist - mg/l/4h) > 97 mg/l/4h Skin corrosion/irritation : Not classified Serolus eye damage/irritation : Not classified Carcinogenicity : Not classified Serolus eye damage/irritation : Not classified Carcinogenicity : Not classified Seronde limutagenicity : Not classified Seronductive toxicity : Not classified Reproductive toxicity : Not classified NPhenyl-1-naphthylamin (90-30-2) NOAEL (animal/male, F0/P) VAEL (animal/male, F0/P) <40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)	LD50 dermal (rabbit)	> 5000 mg/kg
LD50 oral (rat) > 800 mg/kg LD50 oral (rat) > 5000 mg/kg 1naphtol (90-15-3) 1870 mg/kg LD50 oral (rat) 1870 mg/kg LD50 oral (rat) 1870 mg/kg LD50 oral (rat) 1870 mg/kg LD50 inhalation (rat) (Dust/Mist - mg/l/4h) > 97 mg/l/4h Skin corrosion/irritation : Not classified Serious by ed amage/irritation : Not classified Serious by ed amage/irritation : Not classified Serious continue to boot classified	LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5 mg/l/4h
LD50 demail (rabbit) > 5000 mg/kg 1naphtol (90-15-3) 1870 mg/kg LD50 oral (rat) 1870 mg/kg LD50 demail (rabbit) 880 mg/kg LC50 inhalation (rat) (Dust/Mist - mg/l/4h) > 97 mg/l/4h Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Serious eye damage/firritation : Not classified Serious eye damage/firritation : Not classified Parpoductive toxicity : Not classified NPhenyl-1-naphthylamin (90-30-2) < 40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)	diphenylamine (122-39-4)	
1-naphtol (90-15-3) LD50 oral (rat) 1870 mg/kg LD50 dermal (rabbit) 880 mg/kg LD50 dermal (rabbit) 880 mg/kg LD50 intervention 1870 mg/kg Skin corrosion/intration Not classified Skin corrosion/intration Not classified Respiratory or skin sensitisation Not classified Sem cell mutagenicity Not classified Carcinogenicity Not classified Reproductive toxicity Not classified Reproductive toxicity Not classified NPhenyl-1-naphthylamin (90-30-2) Vot classified NOAEL (animal/male, F0/P) <40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test) NOAEL (animal/female, F0/P) <40 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test) STOT-single exposure : Not classified 1-naphtol (90-15-3) STOT-single exposure STOT-repeated exposure : Not classified DIstillates (petroleum), hydrotreated heavy partifilic (64742-54-7) LOAEL (oral, rat, 90 days) 125	LD50 oral (rat)	> 800 mg/kg
LD50 oral (rat) 1870 mg/kg LD50 dermal (rabbit) 880 mg/kg LC50 inhalation (rat) (Dust/Mist - mg/l/4h) > 97 mg/l/4h Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Cespiratory or skin sensitisation : Not classified Serious eye damage/irritation : Not classified Cespiratory or skin sensitisation : Not classified Carcinogenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified NPhenyl-1-naphthylamin (90-30-2) Not classified NOAEL (animal/male, F0/P) <40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)	LD50 dermal (rabbit)	> 5000 mg/kg
LD50 dermal (rabbit) 880 mg/kg LC50 inhalation (rat) (Dust/Mist - mg/l/4h) > 97 mg/l/4h Skin corrosion/Irritation Not classified Serious eye damage/irritation Not classified Respiratory or skin sensilisation Not classified Serious eye damage/irritation Not classified Germ cell mutagenicity Not classified Carcinogenicity Not classified Reproductive toxicity Not classified NPhenyl-1-naphthylamin (90-30-2) NOAEL (animal/male, F0/P) NOAEL (animal/male, F0/P) <40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction Toxicity Test)	1-naphtol (90-15-3)	
LC50 inhalation (rat) (Dust/Mist - mg/l/4h) > 97 mg/l/4h Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified Serious eye damage/irritation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified NPhenyl-1-naphthylamin (90-30-2) Not classified NOAEL (animal/male, F0/P) < 40 mg/kg bodyweight Animat: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction Toxicity Test)	LD50 oral (rat)	1870 mg/kg
Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified Carcinogenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified NPhenyl-1-naphthylamin (90-30-2) NOAEL (animal/male, F0/P) < 40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)	LD50 dermal (rabbit)	880 mg/kg
Berious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified Carcinogenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified NPHenyl-1-naphthylamin (90-30-2) . NOAEL (animal/male, F0/P) NOAEL (animal/female, F0/P) : 40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test) NOAEL (animal/female, F0/P) : : 46 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test) STOT-single exposure : : Vot classified 1-naphtol (90-15-3) : : Vot classified STOT-single exposure : : Vot classified Distillates (petroleum), hydrotreated heavy = tiffinc (64742-54-7) : Vot classified LOAEL (oral, rat, 90 days) : : : : NOAEL (oral, rat, 90 days) : : : : NOAEL (oral, rat, 90 days)	LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 97 mg/l/4h
Respiratory or skin sensitisation I Not classified Germ cell mutagenicity Not classified Carcinogenicity Not classified Reproductive toxicity Not classified NP-Penyl-1-naphthylamin (90-30-2) Not classified NOAEL (animal/male, F0/P) <40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)		
Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified Reproductive toxicity : Not classified NPhenyl-1-naphthylamin (90-30-2) V NOAEL (animal/male, F0/P) < 40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)		
Carcinogenicity : Not classified Reproductive toxicity : Not classified N-Phenyl-1-naphthylamin (90-30-2) < 40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)		
Reproductive toxicity : Not classified N-Phenyl-1-naphthylamin (90-30-2) < 40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)		
NOAEL (animal/male, F0/P)< 40 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)NOAEL (animal/female, F0/P)< 46 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)STOT-single exposure: Not classified1-naphtol (90-15-3)May cause respiratory irritation.STOT-repeated exposure: Not classifiedDistillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)LOAEL (oral, rat, 90 days)125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408Hydrocarbons, C10-C13, aromatics, <1% nap+thalene		Not classified
(Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)NOAEL (animal/female, F0/P)< 46 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)STOT-single exposure: Not classified1-naphtol (90-15-3)May cause respiratory irritation.STOT-single exposure: Not classifiedDistillates (petroleum), hydrotreated heavy partifinic (64742-54-7)LOAEL (oral, rat, 90 days)125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408Hydrocarbons, C10-C13, aromatics, <1% nap+talene	N-Phenyl-1-naphthylamin (90-30-2)	
(Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test) STOT-single exposure Not classified 1-naphtol (90-15-3) STOT-single exposure STOT-single exposure May cause respiratory irritation. STOT-repeated exposure Not classified Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) LOAEL (oral, rat, 90 days) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 Hydrocarbons, C10-C13, aromatics, <1% naphthalene	NOAEL (animal/male, F0/P)	(Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation
1-naphtol (90-15-3) STOT-single exposure May cause respiratory irritation. STOT-repeated exposure : Not classified Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 Hydrocarbons, C10-C13, aromatics, <1% nap+thalene	NOAEL (animal/female, F0/P)	(Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation
STOT-single exposure May cause respiratory irritation. STOT-repeated exposure Not classified Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 Hydrocarbons, C10-C13, aromatics, <1% naphthalene	STOT-single exposure :	Not classified
STOT-repeated exposure : Not classified Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 Hydrocarbons, C10-C13, aromatics, <1% naphthalene	1-naphtol (90-15-3)	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 Hydrocarbons, C10-C13, aromatics, <1% naphtalene	STOT-single exposure	May cause respiratory irritation.
LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 Hydrocarbons, C10-C13, aromatics, <1% naphthalene		
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	Distillates (petroleum), hydrotreated heavy pa	raffinic (64742-54-7)
NOAEL (oral, rat, 90 days) 300 mg/kg bodyweight OECD Guideline 408 NOAEL (subchronic, oral, animal/male, 90 days) 300 mg/kg bodyweight N-Phenyl-1-naphthylamin (90-30-2)	LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408
NOAEL (subchronic, oral, animal/male, 90 days) 300 mg/kg bodyweight N-Phenyl-1-naphthylamin (90-30-2) 300 mg/kg bodyweight	Hydrocarbons, C10-C13, aromatics, <1% naph	nthalene
N-Phenyl-1-naphthylamin (90-30-2)	NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight OECD Guideline 408
	NOAEL (subchronic, oral, animal/male, 90 days)	300 mg/kg bodyweight
STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.	N-Phenyl-1-naphthylamin (90-30-2)	
	STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

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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)		
Lubricating oils (petroleum), C15-30, hydrotre	ated neutral oil-based (72623-86-0)		
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight		
Hydrocarbons, C11-C13, isoalkanes, <2% aro	matics		
NOAEL (subchronic, oral, animal/male, 90 days)	1000 mg/kg bodyweight		
diphenylamine (122-39-4)			
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
1-naphtol (90-15-3)			
NOAEL (subchronic, oral, animal/male, 90 days)	130 mg/kg bodyweight		
Aspiration hazard :	Not classified		
44870 - INDUSTRIAL SYSTEM OIL CL 100			
Viscosity, kinematic	91.8 mm²/s @ 40°C (ASTM D7042)		
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)			
Viscosity, kinematic	98 (98 – 108) mm²/s @40°C		
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		
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)			
Viscosity, kinematic	1.99 – 847 mm²/s 40°C		
Hydrocarbons, C11-C13, isoalkanes, <2% aro	matics		
Viscosity, kinematic	1.77 mm²/s		
11.2. Information on other hazards			

No additional information available

SECTION 12: Ecological information

12.1. Toxicity	
Hazardous to the aquatic environment, short-term : (acute)	Harmful to aquatic life with long lasting effects. Not classified Harmful to aquatic life with long lasting effects.
(chronic)	, , , , , , , , , , , , , , , , , , , ,
Distillates (petroleum), hydrotreated heavy pa	raffinic (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)

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Distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)
NOEC chronic crustacea	10 mg/l Daphnia magna (21d)
NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)
Hydrocarbons, C10-C13, aromatics, <1% nap	hthalene
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)
N-Phenyl-1-naphthylamin (90-30-2)	
LC50 - Fish [1]	0.44 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	0.3 mg/l Daphnia magna
EC50 96h - Algae [1]	0.93 mg/l Pseudokirchneriella subcapitata
NOEC chronic crustacea	0.032 mg/l Daphnia magna (21d)
NOEC chronic algae	0.032 mg/l Daphnia magna (21d)
Distillates (petroleum), hydrotreated light par	affinic (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)
NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)
Lubricating oils (petroleum), C15-30, hydrotre	eated 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)
Hydrocarbons, C11-C13, isoalkanes, <2% aro	matics
LC50 - Fish [1]	> 1000 mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna
EC50 72h - Algae [1]	> 1000 mg/l Raphidocelis subcapitata
NOEC chronic algae	100 mg/l Raphidocelis subcapitata (72h)
diphenylamine (122-39-4)	
LC50 - Fish [1]	3.79 mg/l Pimephales promelas
EC50 - Crustacea [1]	2 mg/l Daphnia magna (OECD 202)

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diphenylamine (122-39-4)			
NOEC chronic fish	0.625 mg/l Oryzias latipes (21d)		
NOEC chronic crustacea	0.125 mg/l Daphnia magna (OECD Test Guideline 202) (21d)		
NOEC chronic algae	0.027 mg/l Pseudokirchnerella subcapitata (72h)		
1-naphtol (90-15-3)			
LC50 - Fish [1]	0.33 mg/l M. cavasius		
EC50 - Crustacea [1]	2.51 mg/l Daphnia magna		
EC50 72h - Algae [1]	> 2.18 mg/l Pseudokirchneriella subcapitata		
NOEC chronic crustacea	0.25 mg/l Daphnia magna (21d)		
NOEC chronic algae	> 2.18 mg/l Pseudokirchneriella subcapitata (72h)		
12.2. Persistence and degradability			
Distillates (petroleum), hydrotreated heavy pa	raffinic (64742-54-7)		
Persistence and degradability	Not readily biodegradable.		
Biodegradation	31 % OECD TG 301 F (28d)		
Hydrocarbons, C10-C13, aromatics, <1% napl	nthalene		
Persistence and degradability	Readily biodegradable.		
Biodegradation	70 % 28d OECD 301F		
N-Phenyl-1-naphthylamin (90-30-2)			
Persistence and degradability	Not readily biodegradable.		
Biodegradation	0 % 28d		
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)			
Biodegradation	31 % OECD TG 301 F (28d)		
Lubricating oils (petroleum), C15-30, hydrotre	ated neutral oil-based (72623-86-0)		
Persistence and degradability	Not readily biodegradable.		
Biodegradation	31 % 28 d OECD 301F		
Hydrocarbons, C11-C13, isoalkanes, <2% aro	matics		
Biodegradation	31.3 % 28 d Richtlijn test OECD 301F		
diphenylamine (122-39-4)			
Biodegradation	26 % OECD TG 301 D (28d)		
1-naphtol (90-15-3)			
Biodegradation	77.8 % OECD 301B (29d)		
12.3. Bioaccumulative potential			
Distillates (petroleum), hydrotreated heavy pa	raffinic (64742-54-7)		
Partition coefficient n-octanol/water (Log Pow)	3.9 – 6		
Hydrocarbons, C10-C13, aromatics, <1% napl	nthalene		
Bioconcentration factor (BCF REACH)	5780		
Partition coefficient n-octanol/water (Log Pow)	6.5		

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N-Phenyl-1-naphthylamin (90-30-2)	
Bioconcentration factor (BCF REACH)	1424
Partition coefficient n-octanol/water (Log Pow)	4.28
Distillates (petroleum), hydrotreated light para	affinic (64742-55-8)
Partition coefficient n-octanol/water (Log Pow)	> 6
Hydrocarbons, C11-C13, isoalkanes, <2% aro	matics
Bioconcentration factor (BCF REACH)	2500
diphenylamine (122-39-4)	
Bioconcentration factor (BCF REACH)	151.36
Partition coefficient n-octanol/water (Log Kow)	3.4
1-naphtol (90-15-3)	
Partition coefficient n-octanol/water (Log Pow)	2.85
12.4. Mobility in soil	
Hydrocarbons, C10-C13, aromatics, <1% napl	hthalene
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.11 @ 20°C
Lubricating oils (petroleum), C15-30, hydrotre	eated 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	
	Dispose of contents/container in accordance with licensed collector's sorting instructions. 13 02 05* - mineral-based non-chlorinated engine, gear and lubricating oils
SECTION 14: Transport information	

n accordance with ADR / IMDG / IATA / ADN / RID				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	umber			
Not regulated for transport				
14.2. UN proper shippin	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.3. Transport hazard o	lass(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 haz	ards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

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 substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals): Diphenylamine (122-39-4)

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)

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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	
	Supersedes	Modified		
	Revision date	Modified		
	Flammability (solid, gas)	Added		
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified		
2.1	Adverse physicochemical, human health and environmental effects	Added		
2.2	Precautionary statements (CLP)	Modified		
4.1	First-aid measures after skin contact	Added		
4.1	First-aid measures after inhalation	Added		
4.1	First-aid measures after ingestion	Added		
4.1	First-aid measures after eye contact	Added		
4.3	Other medical advice or treatment	Added		
5.1	Suitable extinguishing media	Added		
5.2	Hazardous decomposition products in case of fire	Added		
5.3	Protection during firefighting	Added		
6.1	Protective equipment	Added		
6.1	Emergency procedures	Added		
6.1	General measures	Added		
6.2	Environmental precautions	Added		
6.3	Methods for cleaning up	Added		
6.3	Other information	Added		
6.4	Reference to other sections (8, 13)	Added		
7.1	Precautions for safe handling	Added		
7.1	Hygiene measures	Added		
7.2	Storage conditions	Added		
8.2	Environmental exposure controls	Added		
8.2	Respiratory protection	Modified		
8.2	Hand protection	Modified		

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Indication of changes			
Section	Changed item	Change	Comments
8.2	Eye protection	Modified	
8.2	Appropriate engineering controls	Modified	
8.2	Skin and body protection	Modified	
8.2	Personal protective equipment	Modified	
8.2	Materials for protective clothing	Modified	
9.1	Colour	Added	
9.1	Flash point	Modified	
9.1	Density	Modified	
9.1	Viscosity, kinematic	Modified	
10.1	Reactivity	Added	
10.2	Chemical stability	Added	
10.3	Possibility of hazardous reactions	Added	
10.4	Conditions to avoid	Added	
10.5	Incompatible materials	Added	
10.6	Hazardous decomposition products	Added	
12.1	Ecology - general	Added	
13.1	Waste treatment methods	Added	
13.1	European List of Waste (LoW, EC 2000/532)	Added	
15.2	Chemical safety assessment	Added	
16	Abbreviations and acronyms	Modified	

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	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	

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Abbreviations and acronyms:		
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	
РВТ	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	

Full text of H- and EUH-statements:		
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), 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	
EUH066	Repeated exposure may cause skin dryness or cracking.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H311	Toxic in contact with skin.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	

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Full text of H- and EUH-statements:		
H318	Causes serious eye damage.	
H331	Toxic if inhaled.	
H335	May cause respiratory irritation.	
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 Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

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.