

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 28/08/2012 Revision date: 05/02/2024 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 : Mixture

Product name : 78600 - System and Circulation Oil 68

Product code : 78600

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 : 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

Transnational Blenders by Wieldrechtseweg, 37

NL-3316 BG Dordrecht - Netherlands Zuid Holland

Netherlands

T+31 (0)78 6527652

technical@tnb.nl - www.tnb.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, 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	< 0.1	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-	< 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 : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire. Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

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6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : 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 : 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 : Avoid contact with skin and eyes. Ensure good ventilation of the work station. Wear

personal protective equipment.

Handling temperature : $\leq 40 \, ^{\circ}\text{C}$

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

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	IOEL TWA 5 mg/m³	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1] 5 mg/m³		
Hydrocarbons, C10-C13, aromatics, <1% naphthalene		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA 5 mg/m³		

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Hydrocarbons, C10-C13, aromatics, <1% naph	thalene	
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, hydrotreated neutral oil-based (72623-86-0)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	5 mg/m³	
Hydrocarbons, C11-C13, isoalkanes, <2% aron	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/m³	
IOEL STEL	20 mg/m³	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1]	10 mg/m³	
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					
Type Material Permeation		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

: light brown. amber. Colour : Not available Odour : Not available Odour threshold : Not applicable Melting point Freezing point : -24 °C (ASTM D7346) Boiling point : Not available Flammability : Non flammable. Lower explosion limit : Not available Upper explosion limit : Not available

Flash point : > 201 °C (ASTM D92)

Auto-ignition temperature : Not available
Decomposition temperature : Not available
pH : Not available

Viscosity, kinematic : 66 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 : 883 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 (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LD50 oral (rat) > 5000 mg/kg bodyweight 401 Acute Oral Toxicity Test	
LD50 dermal (rabbit)	> 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% naphthalene</th>LD50 oral (rat)> 6318 mg/kg OECD TG 401LD50 dermal (rat)> 2000 mg/kg OECD TG 402LC50 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 paraffinic (64742-55-8)	
LD50 oral (rat)	> 5000 mg/kg 401 Acute Oral Toxicity Test

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Distillates (petroleum), hydrotreated light par	Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)		
LD50 dermal (rabbit)	> 5000 mg/kg 402 Acute Dermal Toxicity Test		
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h 403 Acute Inhalation Toxicity Test		
Lubricating oils (petroleum), C15-30, hydrotre	eated 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		
Hydrocarbons, C11-C13, isoalkanes, <2% aro	matics		
LD50 oral (rat)	> 5000 mg/kg		
LD50 dermal (rabbit)	> 5000 mg/kg		
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5 mg/l/4h		
diphenylamine (122-39-4)			
LD50 oral (rat)	1165 mg/kg		
LD50 dermal (rabbit)	> 5000 mg/kg		
1-naphtol (90-15-3)			
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 : Respiratory or skin sensitisation :	Not classified Not classified		
Germ cell mutagenicity :	Not classified Not classified		
Carcinogenicity :	Not classified		
Reproductive toxicity :	Not classified		
N-Phenyl-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)		
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 classified		
1-naphtol (90-15-3)			
STOT-single exposure	May cause respiratory irritation.		
' '	Not classified		
Distillates (petroleum), hydrotreated heavy pa	araffinic (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			
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight OECD Guideline 408		
NOAEL (subchronic, oral, animal/male, 90 days)	300 mg/kg bodyweight		

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N-Phenyl-1-naphthylamin (90-30-2)				
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.			
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% around	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				
78600 - System and Circulation Oil 68				
Viscosity, kinematic	66 mm²/s @ 40°C (ASTM D7042)			
Distillates (petroleum), hydrotreated heavy pa	raffinic (64742-54-7)			
Viscosity, kinematic	≈ 98 mm²/s @ 40°C			
Hydrocarbons, C10-C13, aromatics, <1% naph	nthalene			
Viscosity, kinematic	4.25 mm²/s			
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)				
/iscosity, kinematic < 20.5 mm²/s @40°C				
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)				
Viscosity, kinematic	Viscosity, kinematic 2978 mm²/s 40°C			
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics				
Viscosity, kinematic	1.77 mm²/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 : Not classified

(acute

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

(chronic)

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LC50 - Fish [1] > 100 mg/l Pimephales promelas	
EC50 - Crustacea [1] > 10000 mg/l Daphnia magna	

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EC50 72h - Najae [1] 2 100 mg/l Pseudokirchneriella subcapitat	Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)			
NOEC chronic rish 1000 mg/l Oncortynchus mykiss (14d) NOEC chronic crustacea 10 mg/l Daphnia magna (21d) NOEC chronic crustacea 2 n00 mg/l Paeudokirchnericila subcapitata (72h) Hydrocarbons, C10-C13, aromatics, <1% naphthalene				
NOEC chronic crustacea 10 mg/l Paphnia magna (21d) NOEC chronic algae ≥ 100 mg/l Paeudokirchneriella subcapitata (72h) Hydrocarbons, C10-C13, aromatics, <1% napht-ballone				
Hydrocarbons, C10-C13, aromatics, <1% naphthalene LC80 - Fish [1] 3.6 mg/l Oncorhynchus mykiss (OECD 203) EC50 - Crustacea [1] 1.1 mg/l OECD 202 EC50 algae 3.8 mg/l 72h (Pseudokirchneriella subcapitata, OECD 201) NOEC chronic crustacea 0.179 mg/l 21 d (Daphnia magna, OECD 211) 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) NoPhenyl-1-naphthylamin (90-30-2) LC50 - Fish [1] 0.44 mg/l Test organisms (species); Oncorhynchus mykiss (previous name: Salmo gairchneri) EC50 - Crustacea [1] 0.3 mg/l Daphnia magna EC50 96h - Algae [1] 0.93 mg/l Daphnia magna EC50 96h - Algae [1] 0.93 mg/l Daphnia magna EC50 96h - Algae [1] 0.93 mg/l Daphnia magna (21d) NOEC chronic crustacea 0.032 mg/l Daphnia magna (21d) Distillates (petroleum), hydrotreated light partificia (64742-55-8) LC50 - Fish [1] > 100 mg/l Pimephales promelas EC50 - Crustacea [1] > 100 mg/l Pimephales promelas EC50 - Crustacea [1] > 100 mg/l Peudokirchneriella subcapitat NOEC chronic crustacea 1000 mg/l Daphnia magna (21d) NOEC chronic dish 1000 mg/l Oncorhynchus mykiss (14d) NOEC chronic dish 1000 mg/l Oncorhynchus mykiss (14d) NOEC chronic fish 1000 mg/l Oncorhynchus mykiss (14d) NOEC chronic dispae > 100 mg/l Pimephales promelas EC50 - Crustacea [1] > 1000 mg/l Pimephales promelas EC50 - Crustacea [1] > 1000 mg/l Pimephales promelas EC50 - Fish [1] > 1000 mg/l Pimephales promelas EC50 - Fish [1] > 1000 mg/l Pimephales promelas EC50 - Fish [1] > 1000 mg/l Pimephales promelas EC50 - Crustacea [1] > 1000 mg/l Pimephales promelas EC50 - Crustacea [1] > 1000 mg/l Pimephales promelas EC50 - Crustacea [1] > 100 mg/l Pimephales promelas EC50 - Crustacea [1] > 1000 mg/l Pimephales promelas EC50 - Crustacea [1] > 1000 mg/l Pimephales promelas EC50 - Crustacea [1] > 1000 mg/l Pimephale	NOEC chronic crustacea			
L050 - Fish [1] 3.6 mg/l Oncorhynchus mykiss (OECD 203)	NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)		
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 dagae 0.179 mg/l 21 d (Daphnia magna, OECD 211) NOEC chronic dagae 0.2 mg/l Daphnia magna (Species): Oncorhynchus mykiss (previous name: Salmo gairdneri) EC50 - Crustacea [1] 0.44 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) EC50 - Crustacea [1] 0.3 mg/l Daphnia magna EC50 98h - Algae [1] 0.3 mg/l Daphnia magna (21d) NOEC chronic drustacea 0.032 mg/l Daphnia magna (21d) NOEC chronic dagae 0.032 mg/l Daphnia magna (21d) Distillates (petroleum), hydrotreated light partifici (64742-55-8) LC50 - Fish [1] 10 mg/l Pimephales promelas EC50 72h - Algae [1] 1000 mg/l Pseudokirchneriella subcapitat NOEC chronic drustacea 110 mg/l Daphnia magna (21d) NOEC chronic dagae 100 mg/l Pseudokirchneriella subcapitata (72h) LUbricating oils (petroleum), C15-30, hydrotreated noutral oil-based (72623-86-0) LC50 - Fish [1] 100 mg/l Pimephales promelas EC50 - Crustacea [1] 100 mg/l Paphnia magna (21d) NOEC chronic dagae 100 mg/l Pimephales promelas EC50 - Crustacea [1] 100 mg/l Paphnia magna (21d)	Hydrocarbons, C10-C13, aromatics, <1% naph	nthalene		
ECSO algae 3.8 mg/l 72h (Pseudokirchneriella subcapitata, OECD 201)	LC50 - Fish [1]	3.6 mg/l Oncorhynchus mykiss (OECD 203)		
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 garidneri) EC50 - Crustacea [1] 0.9 mg/l Daphnia magna EC50 98h - Algae [1] 0.93 mg/l Pseudokirchneriella subcapitata NOEC chronic drustacea 0.932 mg/l Daphnia magna (21d) NOEC chronic algae 0.932 mg/l Daphnia magna (21d) Distillatos (potroleum), hydrotrosted light partific (64742-55-8) LC50 - Fish [1] > 100 mg/l Pimephales promelas EC50 - Crustacea [1] > 100 mg/l Daphnia magna (21d) NOEC chronic fish 1000 mg/l Oncorhynchus mykiss (14d) NOEC chronic fish 100 mg/l Daphnia magna (21d) NOEC chronic algae > 100 mg/l Pseudokirchneriella subcapitata (72h) Lubricating oils (petroleum), C15-30, hydrotretted neutral oil-based (72623-86-0) LC50 - Fish [1] > 100 mg/l Pseudokirchneriella subcapitata (72h) LC50 - Fish [1] > 100 mg/l Daphnia magna (21d) NOEC chronic	EC50 - Crustacea [1]	1.1 mg/l OECD 202		
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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) Distillates (petroleum), hydrotreated light partificic (64742-55-8) LC50 - Fish [1] > 100 mg/l Pimephales promelas EC50 - Crustacea [1] > 1000 mg/l Daphnia magna EC50 - T2h - Algae [1] > 100 mg/l Pseudokirchneriella subcapitat NOEC chronic fish 1000 mg/l Oncorhynchus mykiss (14d) NOEC chronic rustacea 10 mg/l Daphnia magna (21d) Lubricating oils (petroleum), C15-30, hydrotrotrotrotrotrotrotrotrotrotrotrotrotr	NOEC chronic fish	0.103 mg/l 28 d (PETROTOX QSAR)		
N-Phenyl-1-naphthylamin (90-30-2) LCS0 - Fish [1]	NOEC chronic crustacea	0.179 mg/l 21 d (Daphnia magna, OECD 211)		
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 parstrinic (64742-55-8) LC50 - Fish [1] > 1000 mg/l Daphnia magna EC50 - Crustacea [1] > 1000 mg/l Daphnia magna EC50 72h - Algae [1] > 1000 mg/l Daphnia magna (21d) NOEC chronic fish 100 mg/l Daphnia magna (21d) NOEC chronic crustacea 10 mg/l Daphnia magna (21d) NOEC chronic dagae ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) Lubricating oils (petroleum), C15-30, hydrotreted neutral oil-based (72623-86-0) LC50 - Fish [1] > 100 mg/l Daphnia magna EC50 - Crustacea [1] > 1000 mg/l Daphnia magna EC50 - Crustacea [1] > 1000 mg/l Daphnia magna EC50 - Fish [1] > 1000 mg/l Daphnia magna (21d) NOEC chronic crustacea 10 mg/l Pseudokirchneriella subcapitata (72h) Hydrocarbons, C11-C13, tsoalkanes, <2% arountics	NOEC chronic algae	0.179 mg/l 72h (Pseudokirchneriella subcapitata, OECD 201)		
Gairdneri Gair	N-Phenyl-1-naphthylamin (90-30-2)			
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NOEC chronic algae 0.032 mg/l Daphnia magna (21d)	EC50 96h - Algae [1]	0.93 mg/l Pseudokirchneriella subcapitata		
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 100 mg/l Daphnia magna (21d) NOEC chronic orustacea 10 mg/l Daphnia magna (21d) NOEC chronic algae ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) LC50 - Fish [1] > 1000 mg/l Pimephales promelas EC50 - Crustacea [1] > 10000 mg/l Daphnia magna NOEC chronic fish 10000 mg/l Daphnia magna (21d) NOEC chronic crustacea 10 mg/l Daphnia magna (21d) NOEC chronic algae ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) Hydrocarbons, C11-C13, isoalkanes, <2% aromatics LC50 - Fish [1] > 1000 mg/l Oncorhynchus mykiss EC50 - Crustacea [1] > 1000 mg/l Daphnia magna EC50 - Crustacea [1] > 1000 mg/l Daphnia magna EC50 - Fish [2] > 1000 mg/l Daphnia magna EC50 - Crustacea [1] > 1000 mg/l Daphnia magna EC50 - Crustacea [1] <td>NOEC chronic crustacea</td> <td colspan="2">0.032 mg/l Daphnia magna (21d)</td>	NOEC chronic crustacea	0.032 mg/l Daphnia magna (21d)		
LC50 - Fish [1] > 100 mg/l Pinephales pronelas 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, hydrotreted neutral oil-based (72623-86-0) LC50 - Fish [1] > 1000 mg/l Pinephales pronelas EC50 - Crustacea [1] > 1000 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% arountics	NOEC chronic algae	0.032 mg/l Daphnia magna (21d)		
EC50 - Crustacea [1] > 10000 mg/l Daphnia magna	Distillates (petroleum), hydrotreated light para	affinic (64742-55-8)		
EC50 72h - Algae [1] > 100 mg/l Pseudokirchneriella subcapitat NOEC chronic fish NOEC chronic crustacea 10 mg/l Daphnia magna (21d) NOEC chronic algae ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) Lubricating oils (petroleum), C15-30, hydrotreted 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% aromatics LC50 - Fish [1] > 1000 mg/l Oncorhynchus mykiss EC50 - Crustacea [1] > 1000 mg/l Oncorhynchus mykiss EC50 - Crustacea [1] > 1000 mg/l Oncorhynchus mykiss EC50 - Crustacea [1] > 1000 mg/l Raphidocelis subcapitata NOEC chronic algae 100 mg/l Raphidocelis subcapitata (72h)	C50 - Fish [1] > 100 mg/l Pimephales promelas			
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NOEC chronic algae ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) LC50 - Fish [1] > 100 mg/l Pimephales promelas EC50 - Crustacea [1] > 1000 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% aromatics 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)	NOEC chronic fish	1000 mg/l Oncorhynchus mykiss (14d)		
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0) LC50 - Fish [1] > 1000 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% aromatics 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)	NOEC chronic crustacea	10 mg/l Daphnia magna (21d)		
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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% aromatics 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 NOEC chronic algae 100 mg/l Raphidocelis subcapitata (72h)	Lubricating oils (petroleum), C15-30, hydrotre	eated neutral oil-based (72623-86-0)		
NOEC chronic fish 1000 mg/l Oncorhynchus mykiss (14d) NOEC chronic crustacea 10 mg/l Daphnia magna (21d) NOEC chronic algae 2100 mg/l Pseudokirchneriella subcapitata (72h) Hydrocarbons, C11-C13, isoalkanes, <2% aromatics 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)	LC50 - Fish [1]	> 100 mg/l Pimephales promelas		
NOEC chronic crustacea 10 mg/l Daphnia magna (21d) NOEC chronic algae ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) Hydrocarbons, C11-C13, isoalkanes, <2% aromatics 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)	EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna		
NOEC chronic algae ≥ 100 mg/l Pseudokirchneriella subcapitata (72h) Hydrocarbons, C11-C13, isoalkanes, <2% aromatics 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)	NOEC chronic fish	1000 mg/l Oncorhynchus mykiss (14d)		
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics 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)	NOEC chronic crustacea	10 mg/l Daphnia magna (21d)		
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)	NOEC chronic algae	≥ 100 mg/l Pseudokirchneriella subcapitata (72h)		
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)	Hydrocarbons, C11-C13, isoalkanes, <2% aromatics			
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]	> 1000 mg/l Oncorhynchus mykiss		
NOEC chronic algae 100 mg/l Raphidocelis subcapitata (72h) diphenylamine (122-39-4)	EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna		
diphenylamine (122-39-4)	EC50 72h - Algae [1]	> 1000 mg/l Raphidocelis subcapitata		
	NOEC chronic algae	100 mg/l Raphidocelis subcapitata (72h)		
LC50 - Fish [1] 3.79 mg/l Pimephales promelas	diphenylamine (122-39-4)			
	LC50 - Fish [1]	3.79 mg/l Pimephales promelas		

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diphenylamine (122-39-4)		
EC50 - Crustacea [1]	2 mg/l Daphnia magna (OECD 202)	
EC50 72h - Algae [1]	0.43 mg/l Pseudokirchnerella subcapitata	
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)		
_C50 - 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 paraffinic (64742-54-7)		
Persistence and degradability	Not readily biodegradable.	
Biodegradation	31 % OECD TG 301 F (28d)	
Hydrocarbons, C10-C13, aromatics, <1% naph	ıthalene	
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 para	affinic (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% aron	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 paraffinic (64742-54-7)	
Partition coefficient n-octanol/water (Log Pow)	3.9 – 6

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Hydrocarbons, C10-C13, aromatics, <1% naphthalene		
Bioconcentration factor (BCF REACH)	5780	
Partition coefficient n-octanol/water (Log Pow)	6.5	
N-Phenyl-1-naphthylamin (90-30-2)		
Bioconcentration factor (BCF REACH)	1424	
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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% around	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% naphthalene		
Organic Carbon Normalized Adsorption Coefficient (Log Koc) 3.11 @ 20°C		
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 : Dispose of contents/container in accordance with licensed collector's sorting instructions.

European List of Waste (LoW, EC 2000/532) : 13 01 10* - mineral based non-chlorinated hydraulic oils

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					

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ADR	IMDG	IATA	ADN	RID
14.2. UN proper shipping	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard o	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 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
No supplementary informatio	n available	1	<u> </u>	

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)

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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
	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	

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Indication of changes			
Section	Changed item	Change	Comments
8.2	Hand protection	Modified	
8.2	Eye protection	Modified	
8.2	Appropriate engineering controls	Added	
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	Freezing point	Modified	
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	
IATA	International Air Transport Association	

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Abbreviations and acronyms:		
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	

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 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 and enters airways. H314 Toxic in contact with skin.			
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.	Full text of H- and EUH-statements:		
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.	Acute Tox. 3 (Dermal)	Acute toxicity (dermal), 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 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 and enters airways. H311 Toxic in contact with skin.	Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
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 and enters airways. H311 Toxic in contact with skin.	Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
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 and enters airways. H311 Toxic in contact with skin.	Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
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.	Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
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.	Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
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.	Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic 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.	Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
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.	Asp. Tox. 1	Aspiration hazard, 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.	EUH066	Repeated exposure may cause skin dryness or cracking.	
H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin.	Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin.	H301	Toxic if swallowed.	
H311 Toxic in contact with skin.	H302	Harmful if swallowed.	
	H304	May be fatal if swallowed and enters airways.	
H312 Harmful in contact with skin.	H311	Toxic in contact with skin.	
	H312	Harmful in contact with skin.	

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Full text of H- and EUH-statements:		
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
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.