

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 05/12/2014 Revision date: 04/07/2024 Supersedes version of: 24/02/2023 Version: 4.1

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

#### 1.1. Product identifier

Product form : Mixture

Product name : 77810 - Turbine Oil 32

Product code : 77810

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

#### Relevant identified uses

Main use category : Industrial use,Professional use Function or use category : Hydraulic fluids and additives

#### 1.3. Details of the supplier of the safety data sheet

Transnational Blenders bv
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/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

## **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) : 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.

EUH-statements : EUH208 - Contains N-Phenyl-1-naphthylamin(90-30-2). May produce an allergic reaction.

#### 2.3. Other hazards

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

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Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	N-Phenyl-1-naphthylamin (90-30-2)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	N-Phenyl-1-naphthylamin (90-30-2)

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

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

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, 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 (Note L)	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 25	≥ 55 – < 75	Asp. Tox. 1, H304
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil substance with a Community workplace exposure limit (Note L)	CAS-No.: 72623-87-1 EC-No.: 276-738-4 EC Index-No.: 649-483-00-5 REACH-no: 01-2119474889- 13	≥ 25 – < 45	Asp. Tox. 1, H304
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	REACH-no: 01-2119451097- 39	≥ 0.1 – < 0.3	Asp. Tox. 1, H304 Aquatic Chronic 2, H411
N-Phenyl-1-naphthylamin substance with national workplace exposure limit(s) (DE, NL, CH)	CAS-No.: 90-30-2 EC-No.: 201-983-0 REACH-no: 01-2119488704- 27	< 0.3	Acute Tox. 4 (Oral), H302 (ATE=1625 mg/kg bodyweight) 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 (Note L)	CAS-No.: 72623-86-0 EC-No.: 276-737-9 EC Index-No.: 649-482-00-X REACH-no: 01-2119474878- 16	< 0.1	Asp. Tox. 1, H304
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, 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 EUH066

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
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 (Note L)	CAS-No.: 64742-55-8 EC-No.: 265-158-7 EC Index-No.: 649-468-00-3 REACH-no: 01-2119487077- 29	< 0.1	Asp. Tox. 1, H304
Toluene substance with national workplace exposure limit(s) (AT, DE, DK, FI, FR, GB, NL, SE, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 108-88-3 EC-No.: 203-625-9 EC Index-No.: 601-021-00-3 REACH-no: 01-2119471310-	< 0.1	Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336
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 (ATE=0.5 mg/l/4h) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1, H318
naphthalene substance with national workplace exposure limit(s) (AT, BE, DE, DK, ES, FI, FR, GB, HU, IE, IT, LV, NL, PL, RO, SE, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 91-20-3 EC-No.: 202-049-5 EC Index-No.: 601-052-00-2 REACH-no: 01-2119561346- 37	< 0.1	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Methanol substance with national workplace exposure limit(s) (NL)	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X	< 0.1	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=300 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 (ATE=0.5 mg/l/4h) STOT SE 1, H370

Specific concentration limits:				
Name	Product identifier	Specific concentration limits (%)		
N-Phenyl-1-naphthylamin	CAS-No.: 90-30-2 EC-No.: 201-983-0 REACH-no: 01-2119488704- 27	(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		

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Methanol	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X	(3 ≤ C < 10) STOT SE 2; H371 (10 ≤ C < 100) STOT SE 1; H370

Note L:

The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

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

### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures 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.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

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### 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 : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid

contact with skin and eyes.

Handling temperature : ≤ 40 °C

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation.

Storage conditions : Store in a well-ventilated place. Keep cool.

Storage temperature : ≤ 40 °C

Storage area : Store in a well-ventilated place. Store away from heat.

Special rules on packaging : Keep only in original container. Store in a closed container.

# 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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/m³		
IOEL STEL	10 mg/m³		
Ireland - Occupational Exposure Limits			
OEL TWA	EL TWA 5 ppm Form: inhalable fraction		
Hydrocarbons, C10-C13, aromatics, <1% naphthalene			
EU - Indicative Occupational Exposure Limit (IOEL)	EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	5 mg/m³		
Ireland - Occupational Exposure Limits	Ireland - Occupational Exposure Limits		
OEL TWA	5 mg/m³		

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EU - Indicative Occupational Exposure Limit (IOEL)  IOEL TWA  S pm Form: Inhalable fraction  Hydrocarbons, C11-C13, isoalkanes, <2 warmatics  EU - Indicative Occupational Exposure Limit (IOEL)  IOEL TWA  S pm Form: Inhalable fraction  Hydrocarbons, C11-C13, isoalkanes, <2 warmatics  EU - Indicative Occupational Exposure Limit (IOEL)  IOEL TWA  I200 pm  Distillates (potroleum), hydrotreated light paraffilinc (84742-55-8)  EU - Indicative Occupational Exposure Limit (IOEL)  IOEL TWA  S pm Form: Inhalable fraction  diphenylamine (122-39-4)  EU - Indicative Occupational Exposure Limit (IOEL)  IOEL TWA  IOEL TWA  IOEL TWA  IOEL TWA  IO mg/m²  CICEL TWA  IO mg/m²  CICEL TWA  IO mg/m²  Toluane (108-88-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name  IOEL TWA  IOEL STEL  IOEL TWA  IOEL STEL  COEL TWA  IOEL STEL  IOEL TWA  IOEL TWA  IOEL STEL  IOEL TWA  IOEL STEL  IOEL TWA  IOEL TWA  IOEL STEL  IOEL TWA  IOEL T			
DEL TWA	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)		
Ireland - Occupational Exposure Limits  OEL TWA  Sppm Form: Inhalable fraction  Hydrocarbons, C11-C13, isoalkanes, <2% aromatics  EU - Indicative Occupational Exposure Limit (IOEL)  IOEL TWA  1200 ppm  Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)  EU - Indicative Occupational Exposure Limit (IOEL)  IOEL TWA  Sppm Form: Inhalable fraction  UEL TWA  IO mg/m²  UEL TWA  IO mg/m²  UEL TWA  IO mg/m²  IOEL STEL  20 mg/m²  Totuene (108-88-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name  IOEL TWA  10 mg/m²  50 ppm  IOEL STEL  20 mg/m²  Totuene (108-88-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name  IOEL TWA  Sppm Form: Inhalable fraction  Umg/m²  Umg/m²  Umg/m²  Umg/m²  Umg/m²  Totuene (108-88-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name  IOEL TWA  Sppm  IOEL STEL  Skin  Regulatory reference  COMMISSION DIRECTIVE 2008/15/EC  Raphthalene (91-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name  Naphthalene  IOEL TWA  Somg/m²  10 ppm  IOEL STEL  OCCUPATIVE OCCUPATIONAL Exposure Limit (IOEL)  Local name  Naphthalene  IOEL TWA  Somg/m²  IOEL STEL  COMMISSION DIRECTIVE 2016/15/EC: SCOEL Recommendations  Ireland - Occupational Exposure Limit (IOEL)  Regulatory reference  COMMISSION DIRECTIVE 91/322/EEC: SCOEL Recommendations	EU - Indicative Occupational Exposure Limit (IOEL)		
Spm Form: Inhalable fraction	IOEL TWA	5 mg/m³	
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics  EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA 1200 ppm  Distillatos (potroloum), hydrotroated light paraffinic (64742-55-8)  EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA 5 mg/m² Ireland - Occupational Exposure Limits OEL TWA 5 ppm Form: Inhalable fraction  diphonylamine (122-39-4)  EU - Indicative Occupational Exposure Limit (IOEL) IOEL TWA 10 mg/m² IOEL STEL 20 mg/m² Ireland - Occupational Exposure Limits OEL TWA 10 mg/m² OEL STEL 20 mg/m²  Toluene (108-88-3)  EU - Indicative Occupational Exposure Limit (IOEL) Local name Toluene IOEL TWA 100 ppm IOEL STEL 384 mg/m² 100 ppm IOEL STEL 384 mg/m² IO0 ppm Remark Skin Commission DIRECTIVE 2006/15/EC naphthalene (91-20-3)  EU - Indicative Occupational Exposure Limit (IOEL) Local name Naphthalene IOEL TWA 50 mg/m² IO ppm IOEL STEL 100 ppm IOEL TWA 100 ppm IOEL STEL 100 ppm IOEL TWA 100 ppm IOEL STEL 100 ppm IOEL TWA 100 ppm IOEL STEL 100 ppm IOE	Ireland - Occupational Exposure Limits		
EU - Indicative Occupational Exposure Limit (IOEL)   IOEL TWA   1200 ppm	OEL TWA	5 ppm Form: Inhalable fraction	
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)	Hydrocarbons, C11-C13, isoalkanes, <2% around	matics	
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)  EU - Indicative Occupational Exposure Limit (IOEL)  IDEL TWA 5 mg/m²  Ireland - Occupational Exposure Limits  OEL TWA 5 ppm Form: Inhalable fraction  diphenylamine (122-39-4)  EU - Indicative Occupational Exposure Limit (IOEL)  IDEL TWA 10 mg/m²  IDEL STEL 20 mg/m²  IDEL STEL 20 mg/m²  Toluene (108-88-3)  EU - Indicative Occupational Exposure Limit (IOEL)  LOCAI name Toluene (108-88-3)  EU - Indicative Occupational Exposure Limit (IOEL)  LOCAI name Toluene (108-88-3)  IDEL TWA 34 mg/m²  50 ppm  IDEL TWA 49 mg/m²  100 ppm  Remark Skin  Regulatory reference COMMISSION DIRECTIVE 2006/15/EC  naphthalene (91-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name (108-20-3)  EU - Indi	EU - Indicative Occupational Exposure Limit (IOEL)		
EU - Indicative Occupational Exposure Limit (IOEL)   OEL TWA	IOEL TWA	1200 ppm	
IDEL TWA	Distillates (petroleum), hydrotreated light para	affinic (64742-55-8)	
Ireland - Occupational Exposure Limits  OEL TWA 5 ppm Form: Inhalable fraction  diphenylamine (122-39-4)  EU - Indicative Occupational Exposure Limit (IOEL)  IOEL TWA 10 mg/m²  IOEL STEL 20 mg/m²  Ireland - Occupational Exposure Limits  OEL TWA 10 mg/m²  OEL STEL 20 mg/m²  Toluene (108-88-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name Toppm  IOEL STEL 384 mg/m²  50 ppm  IOEL STEL 384 mg/m²  100 ppm  Remark Skin  Regulatory reference COMMISSION DIRECTIVE 2006/15/EC  IOEL TWA 50 mg/m²  IOEL TWA 60 mg/m²  IOEL STEL 10 ppm  IOEL S	EU - Indicative Occupational Exposure Limit (IOEL)		
OEL TWA         5 ppm Form: Inhalable fraction           diphenylamine (122-39-4)           EU - Indicative Occupational Exposure Limit (IOEL)           IOEL TWA         10 mg/m²           IVeland - Occupational Exposure Limits         10 mg/m²           OEL TWA         10 mg/m²           OEL STEL         20 mg/m²           Toluene (108-88-3)           EU - Indicative Occupational Exposure Limit (IOEL)           Local name         Toluene           IOEL TWA         192 mg/m²           50 ppm           IOEL STEL         384 mg/m²           100 ppm           Remark         Skin           Regulatory reference         COMMISSION DIRECTIVE 2006/15/EC           naphthalene (91-20-3)           EU - Indicative Occupational Exposure Limit (IOEL)           Local name         Naphthalene           IOEL TWA         50 mg/m²           10 ppm         10 ppm           IOEL TWA         50 mg/m²           10 ppm         10 ppm           IOEL STEL         15 mg/m²           Remark         (Year of adoption 2010)           Regulatory reference         COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations           Ireland - O	IOEL TWA	5 mg/m³	
Comparison	Ireland - Occupational Exposure Limits		
EU - Indicative Occupational Exposure Limit (IOEL)   IOEL TWA	OEL TWA	5 ppm Form: Inhalable fraction	
IOEL TWA	diphenylamine (122-39-4)		
IDEL STEL   20 mg/m³	EU - Indicative Occupational Exposure Limit (IOEL)		
Ireland - Occupational Exposure Limits	IOEL TWA	10 mg/m³	
OEL TWA         10 mg/m³           OEL STEL         20 mg/m³           Toluene (108-88-3)           EU - Indicative Occupational Exposure Limit (IOEL)           Local name         Toluene           IOEL TWA         192 mg/m³           50 ppm           IOEL STEL         384 mg/m³           100 ppm           Remark         Skin           Regulatory reference         COMMISSION DIRECTIVE 2006/15/EC           naphthalene (91-20-3)           EU - Indicative Occupational Exposure Limit (IOEL)           Local name         Naphthalene           IOEL TWA         50 mg/m³           10 ppm           IOEL STEL         15 mg/m³           Remark         (Year of adoption 2010)           Remark         (Year of adoption 2010)           Regulatory reference         COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations           Ireland - Occupational Exposure Limits	IOEL STEL	20 mg/m³	
Toluene (108-88-3)	Ireland - Occupational Exposure Limits		
Toluene (108-88-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name  IOEL TWA  192 mg/m³ 50 ppm  IOEL STEL  384 mg/m³ 100 ppm  Remark  Regulatory reference  COMMISSION DIRECTIVE 2006/15/EC  naphthalene (91-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name  Naphthalene  IOEL TWA  50 mg/m³ 10 ppm  IOEL STEL  15 mg/m³  Remark  (Year of adoption 2010)  Regulatory reference  COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations  Ireland - Occupational Exposure Limits	OEL TWA	10 mg/m³	
EU - Indicative Occupational Exposure Limit (IOEL)  Local name Toluene  IOEL TWA 192 mg/m³ 50 ppm  IOEL STEL 384 mg/m³ 100 ppm  Remark Skin  Regulatory reference COMMISSION DIRECTIVE 2006/15/EC  naphthalene (91-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name Naphthalene IOEL TWA 50 mg/m³ 10 ppm  IOEL STEL 15 mg/m³ Remark (Year of adoption 2010)  Regulatory reference COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations  Ireland - Occupational Exposure Limits	OEL STEL	20 mg/m³	
Local name    Toluene	Toluene (108-88-3)		
IOEL TWA	EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL STEL   384 mg/m³   100 ppm	Local name	Toluene	
IOEL STEL  384 mg/m³ 100 ppm  Remark  Skin  Regulatory reference  COMMISSION DIRECTIVE 2006/15/EC  naphthalene (91-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name  Naphthalene  IOEL TWA  50 mg/m³ 10 ppm  IOEL STEL  15 mg/m³  Remark  (Year of adoption 2010)  Regulatory reference  COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations  Ireland - Occupational Exposure Limits	IOEL TWA	192 mg/m³	
Remark Skin  Regulatory reference COMMISSION DIRECTIVE 2006/15/EC  naphthalene (91-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name Naphthalene IOEL TWA 50 mg/m³ 10 ppm  IOEL STEL 15 mg/m³  Remark (Year of adoption 2010)  Regulatory reference COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations  Ireland - Occupational Exposure Limits		50 ppm	
Remark  Regulatory reference  COMMISSION DIRECTIVE 2006/15/EC  naphthalene (91-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name  Naphthalene  IOEL TWA  50 mg/m³  10 ppm  IOEL STEL  15 mg/m³  Remark  (Year of adoption 2010)  Regulatory reference  COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations  Ireland - Occupational Exposure Limits	IOEL STEL	384 mg/m³	
Regulatory reference COMMISSION DIRECTIVE 2006/15/EC    naphthalene (91-20-3)		100 ppm	
naphthalene (91-20-3)  EU - Indicative Occupational Exposure Limit (IOEL)  Local name Naphthalene  IOEL TWA 50 mg/m³  10 ppm  IOEL STEL 15 mg/m³  Remark (Year of adoption 2010)  Regulatory reference COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations  Ireland - Occupational Exposure Limits	Remark	Skin	
EU - Indicative Occupational Exposure Limit (IOEL)  Local name Naphthalene  IOEL TWA 50 mg/m³  10 ppm  IOEL STEL 15 mg/m³  Remark (Year of adoption 2010)  Regulatory reference COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations  Ireland - Occupational Exposure Limits	Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
Local name         Naphthalene           IOEL TWA         50 mg/m³           10 ppm           IOEL STEL         15 mg/m³           Remark         (Year of adoption 2010)           Regulatory reference         COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations           Ireland - Occupational Exposure Limits	naphthalene (91-20-3)		
10 ppm	EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL STEL  15 mg/m³  Remark  (Year of adoption 2010)  Regulatory reference  COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations  Ireland - Occupational Exposure Limits	Local name	Naphthalene	
IOEL STEL  15 mg/m³  Remark  (Year of adoption 2010)  Regulatory reference  COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations  Ireland - Occupational Exposure Limits	IOEL TWA	50 mg/m³	
Remark (Year of adoption 2010)  Regulatory reference COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations  Ireland - Occupational Exposure Limits		10 ppm	
Regulatory reference COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations  Ireland - Occupational Exposure Limits	IOEL STEL	15 mg/m³	
Ireland - Occupational Exposure Limits	Remark	(Year of adoption 2010)	
	Regulatory reference	COMMISSION DIRECTIVE 91/322/EEC; SCOEL Recommendations	
OEL TWA 50 mg/m³	Ireland - Occupational Exposure Limits		
L	OEL TWA	50 mg/m³	

# Safety Data Sheet

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

naphthalene (91-20-3)		
10 ppm		
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	5 mg/m³	
IOEL STEL	10 mg/m³	

### 8.2. Exposure controls

#### **Appropriate engineering controls**

# Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protection equipment

#### Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

# Personal protective equipment symbol(s):







#### Eye and face protection

## Eye protection:

Safety glasses

#### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR), Neoprene rubber (HNBR)	5 (> 240 minutes)	0.7	3 (> 0.65)	EN ISO 374
	Polyvinylchloride (PVC)	2 (> 30 minutes)	0.4	3 (> 0.65)	EN ISO 374

# **Respiratory protection**

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

# **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 : light brown.
Odour : Not available
Odour threshold : Not available
Melting point : Not applicable

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Freezing point : -33 °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 : 32.9 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 : 853 kg/m³ @ 15°C (ASTM D4052)

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

#### 9.2. Other information

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 401 Acute Oral Toxicity Test
LD50 dermal (rabbit)	> 5000 mg/kg 402 Acute Dermal Toxicity Test
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5 mg/l/4h 403 Acute Inhalation Toxicity Test

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Hydrocarbons, C10-C13, aromatics, <1% naphthalene				
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			
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)	> 2000 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			
Hydrocarbons, C11-C13, isoalkanes, <2% around	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			
Distillates (petroleum), hydrotreated light para	affinic (64742-55-8)			
LD50 oral (rat)	> 5000 mg/kg 401 Acute Oral Toxicity Test			
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			
diphenylamine (122-39-4)				
LD50 oral (rat)	> 800 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			
Toluene (108-88-3)				
LD50 oral (rat)	5580 mg/kg bodyweight OECD 401			
LD50 dermal (rabbit)	12124 mg/kg OECD 402			
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	25.7 mg/l/4h			
naphthalene (91-20-3)				
LD50 oral (rat)	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)			
LC50 inhalation (rat) (mg/l)	> 0.4 mg/l air Animal: rat, Guideline: other:EPA TSCA, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)			
Methanol (67-56-1)				
LD50 oral (rat)	5600 mg/kg			
LD50 dermal (rabbit)	15800 mg/kg			
LC50 inhalation (rat) (ppm)	64000 ppm/4h			

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LD50 dermal (rabbit)  LC50 inhalation (rat) (Dust/Mist - mg/l/4h)  LC50 inhalation (rat) (Dust/Mist - mg/l/4h)  > 6.53 mg/l/4h  kin corrosion/irritation  : Not classified terious eye damage/irritation : Not classified tespiratory or skin sensitisation : Not classified tespiratory or skin sensitisation : Not classified terrious eye damage/irritation : Not classified  N-Phenyl-1-naphthylamin (90-30-2)  NOAEL (animal/male, F0/P)  NOAEL (animal/male, F0/P)  NOAEL (animal/female, F0/P)  NOAEL (animal/female, F0/P)  NOAEL (animal/female, F0/P)  NOAEL (animal/female, F0/P)  So mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EPA Merbod B.35 (Two-Generation Reproduction Toxicity Test)  NOAEL (animal/female, F0/P)  So mg/kg bodyweight OECD Guideline 414  NOAEL (animal/female, F0/P)  120 mg/kg bodyweight OECD Guideline 414  NOAEL (animal/female, F0/P)  120 mg/kg bodyweight OECD Guideline 414  NOAEL (animal/female, F0/P)  120 mg/kg bodyweight OECD Guideline 414  NOAEL (animal/female, F0/P)  120 mg/kg bodyweight OECD Guideline 414  NOAEL (animal/female, F0/P)  120 mg/kg bodyweight OECD Guideline 414  NOAEL (animal/female, F0/P)  120 mg/kg bodyweight OECD Guideline 414  NOAEL (animal/female, F0/P)  170T-single exposure  May cause respiratory irritation.  **TotT-single exposure**  **Not classified**  **TotT-single exposure**  **Not classified**  **Not classified**  **TotT-single exposure**  **Not classified**  **Not clas	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)				
CSO inhalation (rat) (Dust/Mist - mg/l/4h)    S	LD50 oral (rat)	> 5000 mg/kg			
kin corrosion/irritation : Not classified erious eye damage/irritation : Not classified elegiatory or skin sensitisation : Not classified elegiatory in the control of the	LD50 dermal (rabbit)	> 2000 mg/kg			
terious eye damage/irritation : Not classified cespiratory or skin sensitiastorion : Not classified cespiratory or skin sensitiastorion : Not classified cerem cell mutagenicity : Not classified terrore motel mutagenicity : Not classified terrore del mutagenicity : Not classified terrore del mutagenicity : Not classified terrore ductive toxicity : Not classified terrore duction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test) terrore deproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test) terrore deproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test) terrore deproduction terrore deproduction toxicity Test) terrore deproduction toxicity terrore deproduction terrore deproduction toxicity terrore deproduction toxicity terrore deproduction terrore deproduction toxicity terrore deproduction terrore deproduction toxicity terrore deproduction terrore deproduction terrore deproduction toxicity terrore deproduction terrore deproduction terrore deproduction terrore deproduction and fertility terrore deproduction terrore deproduction an	LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	> 5.53 mg/l/4h			
tespiratory or skin sensitisation : Not classified bern cell mutagenicity : Not classified arcaniogenicity : Not classified traceriogenicity : Not classified traceriogenicity : Not classified tesproductive toxicity : Not classified traceriogenicity : Not classified tesproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test) to the standard traceriogenic in					
erm cell mutagenicity : Not classified arcinogenicity : Not classified arcinogenicity : Not classified between the toxicity : Not classified between the toxicity : Not classified supproductive toxicity : Not classified supproductive toxicity : Not classified supproductive toxicity : Not classified supproduction and Fertility Effects), Guideline: EPA OPP 83-4 (Reproduction and Fertility Effects), Guideline: EU Method B. 35 (Two-Generation Reproduction Toxicity Test)	, 3				
racincipanicity : Not classified reproductive toxicity : Not classified reproductive toxicity : Not classified : Not classified : Not classified : Not classified : No.	, ,				
teproductive toxicity : Not classified  N-Phenyl-1-naphthylamin (90-30-2)  NOAEL (animal/male, F0/P)					
Value   Valu					
(Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)  NOAEL (animal/female, F0/P)  446 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)  100 mg/kg bodyweight OECD Guideline 414  101 mg/kg bodyweight OECD Guideline 414  102 mg/kg bodyweight OECD Guideline 414  103 mg/kg bodyweight OECD Guideline 414  104 mg/kg bodyweight OECD Guideline 414  105 mg/kg bodyweight OECD Guideline 414  106 mg/kg bodyweight OECD Guideline 414  107 mg/kg bodyweight OECD Guideline 414  108 mg/kg bodyweight OECD Guideline 414  109 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 418  109 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 418  109 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 418  109 mg/kg bodyweight OECD Guideline 418  100 mg/kg bodyweight OECD Guideline 408	N-Phenyl-1-naphthylamin (90-30-2)				
(Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation Reproduction Toxicity Test)  naphthalene (91-20-3)  LOAEL (animal/female, F0/P) 50 mg/kg bodyweight OECD Guideline 414  LOAEL (animal/female, F1) 450 mg/kg bodyweight OECD Guideline 414  NOAEL (animal/female, F0/P) 120 mg/kg bodyweight OECD Guideline 414  NOAEL (animal/female, F0/P) 120 mg/kg bodyweight OECD Guideline 414  TOT-single exposure Not classified  1-naphtol (90-15-3)  STOT-single exposure May cause respiratory irritation.  Toluene (108-88-3)  STOT-single exposure May cause drowsiness or dizziness.  Methanol (67-56-1)  STOT-single exposure Causes damage to organs.  TOT-repeated exposure Not classified  Distillates (petroleum), hydrotreated heavy parffinic (64742-54-7)  LOAEL (oral, rat, 90 days) (25 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  Hydrocarbons, C10-C13, aromatics, <1% naphthalene  LOAEL (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-naphttylamin (90-30-2)	NOAEL (animal/male, F0/P)	(Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation			
LOAEL (animal/female, F0/P)  LOAEL (animal/female, F0/P)  LOAEL (animal/female, F1)  A50 mg/kg bodyweight OECD Guideline 414  LOAEL (animal/female, F0/P)  120 mg/kg bodyweight OECD Guideline 414  LOAEL (animal/female, F0/P)  120 mg/kg bodyweight OECD Guideline 414  LOAEL (animal/female, F0/P)  120 mg/kg bodyweight OECD Guideline 414  LOAEL (animal/female, F0/P)  120 mg/kg bodyweight OECD Guideline 414  LOAEL (animal/female, F0/P)  120 mg/kg bodyweight OECD Guideline 414  LOAEL (animal/female, F0/P)  120 mg/kg bodyweight OECD Guideline 414  LOAEL (animal/female, F0/P)  120 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408  (Repeated Dose 90-Day Oral Toxicity in Rodents)  LOAEL (oral, rat, 90 days)	NOAEL (animal/female, F0/P)	(Reproduction and Fertility Effects), Guideline: EU Method B.35 (Two-Generation			
LOAEL (animal/female, F1)  450 mg/kg bodyweight OECD Guideline 414  120 mg/kg bodyweight OECD Guideline 414  170T-single exposure  170T-repeated exposure  170T-repeated exposure  170T-repeated exposure  170T-single exposure  170T-repeated exposure  170T-re	naphthalene (91-20-3)				
NOAEL (animal/female, F0/P)  120 mg/kg bodyweight OECD Guideline 414  TOT-single exposure  Not classified  1-naphtol (90-15-3)  STOT-single exposure  May cause respiratory irritation.  Toluene (108-88-3)  STOT-single exposure  May cause drowsiness or dizziness.  Methanol (67-56-1)  STOT-single exposure  Causes damage to organs.  STOT-repeated exposure  Interpetated	LOAEL (animal/female, F0/P)	50 mg/kg bodyweight OECD Guideline 414			
Into T-single exposure : Not classified  Inaphtol (90-15-3)  STOT-single exposure	LOAEL (animal/female, F1)	450 mg/kg bodyweight OECD Guideline 414			
Althaphtol (90-15-3)  STOT-single exposure May cause respiratory irritation.  Toluene (108-88-3)  STOT-single exposure May cause drowsiness or dizziness.  Methanol (67-56-1)  STOT-single exposure Causes damage to organs.  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 (Repeated Dose 90-Day Oral Toxicity in Rodents)  Hydrocarbons, C10-C13, aromatics, <1% naphthalene  LOAEL (oral, rat, 90 days) 400 mg/kg bodyweight/day  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)	NOAEL (animal/female, F0/P)				
May cause respiratory irritation.  Toluene (108-88-3)  STOT-single exposure May cause drowsiness or dizziness.  Methanol (67-56-1)  STOT-single exposure Causes damage to organs.  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 (Repeated Dose 90-Day Oral Toxicity in Rodents)  Hydrocarbons, C10-C13, aromatics, <1% naphthalene  LOAEL (oral, rat, 90 days) 400 mg/kg bodyweight/day  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)	STOT-single exposure :	Not classified			
Toluene (108-88-3)  STOT-single exposure  Methanol (67-56-1)  STOT-single exposure  Causes damage to organs.  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 (Repeated Dose 90-Day Oral Toxicity in Rodents)  Hydrocarbons, C10-C13, aromatics, <1% naphthalene  LOAEL (oral, rat, 90 days)  400 mg/kg bodyweight/day  NOAEL (oral, rat, 90 days)  300 mg/kg bodyweight OECD Guideline 408  NOAEL (subchronic, oral, animal/male, 90 days)  N-Phenyl-1-naphthylamin (90-30-2)	1-naphtol (90-15-3)				
Methanol (67-56-1) STOT-single exposure  Causes damage to organs. 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 (Repeated Dose 90-Day Oral Toxicity in Rodents)  Hydrocarbons, C10-C13, aromatics, <1% naphthalene  LOAEL (oral, rat, 90 days)  400 mg/kg bodyweight/day  NOAEL (oral, rat, 90 days)  300 mg/kg bodyweight OECD Guideline 408  NOAEL (subchronic, oral, animal/male, 90 days)  N-Phenyl-1-naphthylamin (90-30-2)	STOT-single exposure	May cause respiratory irritation.			
Methanol (67-56-1)  STOT-single exposure  Causes damage to organs.  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 (Repeated Dose 90-Day Oral Toxicity in Rodents)  Hydrocarbons, C10-C13, aromatics, <1% naphthalene  LOAEL (oral, rat, 90 days)  NOAEL (oral, rat, 90 days)  NOAEL (oral, rat, 90 days)  300 mg/kg bodyweight OECD Guideline 408  NOAEL (subchronic, oral, animal/male, 90 days)  N-Phenyl-1-naphthylamin (90-30-2)	Toluene (108-88-3)				
Causes damage to organs.  TOT-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 (Repeated Dose 90-Day Oral Toxicity in Rodents)  Hydrocarbons, C10-C13, aromatics, <1% naphthalene  LOAEL (oral, rat, 90 days) 400 mg/kg bodyweight/day  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)	STOT-single exposure	May cause drowsiness or dizziness.			
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 (Repeated Dose 90-Day Oral Toxicity in Rodents)  Hydrocarbons, C10-C13, aromatics, <1% naphthalene  LOAEL (oral, rat, 90 days)  NOAEL (oral, rat, 90 days)  NOAEL (subchronic, oral, animal/male, 90 days)  NOAEL (subchronic, oral, animal/male, 90 days)  N-Phenyl-1-naphthylamin (90-30-2)	Methanol (67-56-1)				
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 (Repeated Dose 90-Day Oral Toxicity in Rodents)  Hydrocarbons, C10-C13, aromatics, <1% naphthalene  LOAEL (oral, rat, 90 days)  NOAEL (oral, rat, 90 days)  NOAEL (subchronic, oral, animal/male, 90 days)  NOAEL (subchronic, oral, animal/male, 90 days)  N-Phenyl-1-naphthylamin (90-30-2)	STOT-single exposure	Causes damage to organs.			
LOAEL (oral, rat, 90 days)  125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)  Hydrocarbons, C10-C13, aromatics, <1% naphthalene  LOAEL (oral, rat, 90 days)  NOAEL (oral, rat, 90 days)  NOAEL (subchronic, oral, animal/male, 90 days)  NOAEL (subchronic, oral, animal/male, 90 days)  N-Phenyl-1-naphthylamin (90-30-2)	STOT-repeated exposure :	Not classified			
(Repeated Dose 90-Day Oral Toxicity in Rodents)  Hydrocarbons, C10-C13, aromatics, <1% naphthalene  LOAEL (oral, rat, 90 days)  NOAEL (oral, rat, 90 days)  NOAEL (subchronic, oral, animal/male, 90 days)  NOAEL (subchronic, oral, animal/male, 90 days)  N-Phenyl-1-naphthylamin (90-30-2)	Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)				
LOAEL (oral, rat, 90 days)  NOAEL (oral, rat, 90 days)  NOAEL (subchronic, oral, animal/male, 90 days)  NOAEL (subchronic, oral, animal/male, 90 days)  N-Phenyl-1-naphthylamin (90-30-2)	LOAEL (oral, rat, 90 days)				
NOAEL (oral, rat, 90 days)  NOAEL (subchronic, oral, animal/male, 90 days)  NOAEL (subchronic, oral, animal/male, 90 days)  N-Phenyl-1-naphthylamin (90-30-2)	Hydrocarbons, C10-C13, aromatics, <1% naph	thalene			
NOAEL (subchronic, oral, animal/male, 90 days)  N-Phenyl-1-naphthylamin (90-30-2)	LOAEL (oral, rat, 90 days)	400 mg/kg bodyweight/day			
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			
	N-Phenyl-1-naphthylamin (90-30-2)				
NOAEL (subacute, oral, 28 days) 5 mg/kg bodyweight/day (OECD 407)	NOAEL (subacute, oral, 28 days)	5 mg/kg bodyweight/day (OECD 407)			
NOAEL (subchronic, oral, 90 days) 5 mg/kg bodyweight/day (OECD 408)	NOAEL (subchronic, oral, 90 days)	5 mg/kg bodyweight/day (OECD 408)			
STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.	STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.			
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)	Lubricating oils (petroleum), C15-30, hydrotre	ated neutral oil-based (72623-86-0)			
LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight	10451 ( 1 100 1 )	125 malka bodywojaht			

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

Hydrocarbons, C11-C13, isoalkanes, <2% aromatics					
NOAEL (subchronic, oral, animal/male, 90 days)  1000 mg/kg bodyweight 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents					
Distillates (petroleum), hydrotreated light paraffinic (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)				
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				
Toluene (108-88-3)					
NOAEL (oral, rat, 90 days)	625 mg/kg bodyweight/day				
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.				
naphthalene (91-20-3)					
LOAEL (oral, rat, 90 days)	400 mg/kg bodyweight OECD 408				
LOAEC (inhalation, rat, vapour, 90 days)	0.011 mg/l air OECD Guideline 413				
NOAEL (dermal, rat/rabbit, 90 days)	1000 mg/kg bodyweight OECD Guideline 411				
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)					
LOAEL (oral, rat, 90 days)  125 mg/kg bodyweight/day					
Aspiration hazard : Not classified					
77810 - Turbine Oil 32					
Viscosity, kinematic	32.9 mm²/s @ 40°C (ASTM D7042)				
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)					
Viscosity, kinematic	20.8 mm²/s @ 40°C				
Hydrocarbons, C10-C13, aromatics, <1% naph	nthalene				
Viscosity, kinematic	4.25 mm²/s				
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based (72623-86-0)					
Viscosity, kinematic	2978 mm²/s 40°C				
Hydrocarbons, C11-C13, isoalkanes, <2% aromatics					
Viscosity, kinematic 1.77 mm²/s					
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)					
Viscosity, kinematic	< 20.5 mm²/s @40°C				
Toluene (108-88-3)					
Viscosity, kinematic 0.644 mm²/s @20°C					
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)					
Viscosity, kinematic 47 mm²/s					

# 11.2. Information on other hazards

No additional information available

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# **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)

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

(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				
EC50 72h - Algae [1]	> 100 mg/l				
Hydrocarbons, C10-C13, aromatics, <1% naphthalene					
LC50 - Fish [1]	3.6 mg/l Oncorhynchus mykiss (OECD 203)				
EC50 - Crustacea [1]	1.4 mg/l Daphnia magna				
EC50 72h - Algae [1]	> 1 mg/l Raphidocelis subcapitata				
ErC50 algae	3.8 mg/l 72h (Pseudokirchneriella subcapitata, OECD 201)				
NOEC chronic crustacea	0.48 mg/l Daphnia magna (21d)				
NOEC chronic algae	1 mg/l Pseudokirchneriella subcapitata (72h)				
N-Phenyl-1-naphthylamin (90-30-2)					
LC50 - Fish [1]  0.44 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: S gairdneri)					
EC50 - Crustacea [1]	0.3 mg/l Daphnia magna 0.93 mg/l Pseudokirchneriella subcapitata				
EC50 96h - Algae [1]					
NOEC chronic crustacea	0.032 mg/l Daphnia magna (21d)				
Lubricating oils (petroleum), C15-30, hydrotre	eated neutral oil-based (72623-86-0)				
LC50 - Fish [1]	> 100 mg/l Pimephales promelas (OECD 203)				
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna (OECD 202)				
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)					
Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)					
LC50 - Fish [1]	> 100 mg/l Pimephales promelas (OECD 203)				
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna (OECD 202)				
EC50 72h - Algae [1]	> 100 mg/l Pseudokirchneriella subcapitat (OECD 201)				
NOEC chronic fish 1000 mg/l Oncorhynchus mykiss (14d)					

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Distillates (petroleum), hydrotreated light paraffinic (64742-55-8)				
NOEC chronic crustacea	10 mg/l Daphnia magna (21d) (OECD 211)			
NOEC chronic algae	100 mg/l Pseudokirchneriella subcapitata (72h) (OECD 201)			
diphenylamine (122-39-4)				
LC50 - Fish [1]	2.2 mg/l			
EC50 - Crustacea [1]	0.31 mg/l Daphnia magna (OECD 202)			
EC50 72h - Algae [1]	1.51 mg/l Selenastrum capricornutum			
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)			
Toluene (108-88-3)				
LC50 - Fish [1]	5.5 mg/l Oncorhynchus kisutch			
EC50 - Crustacea [1]	3.78 mg/l Ceriodaphnia Dubia			
EC50 72h - Algae [1]	134 mg/l Pseudokirchneriella subcapitata 1.39 mg/l 40d			
NOEC chronic fish				
NOEC chronic crustacea	0.74 mg/l Ceriodaphnia dubia (7d)			
naphthalene (91-20-3)				
LC50 - Fish [1]	0.96 mg/l Oncorhynchus gorbuscha			
EC50 - Crustacea [1]	2.16 mg/l Daphnia magna			
EC50 96h - Algae [1]	2.96 mg/l Pseudokirchneriella subcapitata			
NOEC (chronic)	0.59 mg/l (Daphnia pulex; 125 d)			
NOEC chronic fish	0.12 mg/l Oncorhynchus gorbuscha (40d) 0.59 mg/l Daphnia pulex (125d)			
NOEC chronic crustacea				
Methanol (67-56-1)				
LC50 - Fish [1]	100 mg/l Fathead minnow			
EC50 - Crustacea [1]	22200 – 23400 mg/l Daphnia obtusa			
EC50 96h - Algae [1]	16.912 mg/l Green algae			
NOEC chronic algae	9.96 mg/l Green algae (96h)			
Lubricating oils (petroleum), C20-50, hydrotre	eated neutral oil (72623-87-1)			
LC50 - Fish [1]	> 100 mg/l Pimephales promelas			
EC50 - Crustacea [1]	> 10000 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)			

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12.2. Persistence and degradability				
77810 - Turbine Oil 32				
Persistence and degradability	Rapidly degradable			
Distillates (petroleum), hydrotreated heavy pa	raffinic (64742-54-7)			
Persistence and degradability	Not rapidly degradable			
Biodegradation	< 31 % OECD TG 301 F (28d)			
Hydrocarbons, C10-C13, aromatics, <1% naph	nthalene			
Persistence and degradability	Readily biodegradable.			
Biodegradation	58.6 % OECD 301F (28d)			
N-Phenyl-1-naphthylamin (90-30-2)				
Persistence and degradability	Not readily biodegradable.			
Biodegradation	0 % OECD 301C (28d)			
Lubricating oils (petroleum), C15-30, hydrotre	eated neutral oil-based (72623-86-0)			
Persistence and degradability	Not readily biodegradable.			
Biodegradation	31 % 28 d OECD 301F			
Hydrocarbons, C11-C13, isoalkanes, <2% aron	matics			
Persistence and degradability	Readily biodegradable.			
Biodegradation	80 % OECD 301B (28d)			
Distillates (petroleum), hydrotreated light para	affinic (64742-55-8)			
Persistence and degradability	Inherently biodegradable.			
Biodegradation	31 % OECD TG 301 F (28d)			
diphenylamine (122-39-4)				
Persistence and degradability	Not readily biodegradable.			
Biodegradation	26 % OECD TG 301 D (28d)			
1-naphtol (90-15-3)				
Persistence and degradability	Rapidly degradable			
Biodegradation	77.8 % OECD 301B (29d)			
Toluene (108-88-3)				
Persistence and degradability	Not rapidly degradable			
Biodegradation	80 %			
naphthalene (91-20-3)				
Persistence and degradability	Not readily biodegradable.			
Biodegradation	2 % (28d)			
Methanol (67-56-1)				
Persistence and degradability	Rapidly degradable			
Biodegradation	99 % (28d)			

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bricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)		
Persistence and degradability	Rapidly degradable.	
Biodegradation	31 %	

12.3. Bioaccumulative potential			
Hydrocarbons, C10-C13, aromatics, <1% naphthalene			
Bioconcentration factor (BCF REACH)	5780		
Partition coefficient n-octanol/water (Log Pow)	3.17		
N-Phenyl-1-naphthylamin (90-30-2)			
Bioconcentration factor (BCF REACH)	1424		
Partition coefficient n-octanol/water (Log Pow)	4.28 @ 20°C		
Hydrocarbons, C11-C13, isoalkanes, <2% around	matics		
Bioconcentration factor (BCF REACH)	2500		
Distillates (petroleum), hydrotreated light para	affinic (64742-55-8)		
Partition coefficient n-octanol/water (Log Pow)	> 6		
diphenylamine (122-39-4)			
Bioconcentration factor (BCF REACH)	151.36		
Partition coefficient n-octanol/water (Log Pow)	3.4		
1-naphtol (90-15-3)			
Partition coefficient n-octanol/water (Log Pow)	2.85		
Toluene (108-88-3)			
Bioconcentration factor (BCF REACH)	90		
Partition coefficient n-octanol/water (Log Kow)	2.73 @20°C		
naphthalene (91-20-3)			
Bioconcentration factor (BCF REACH)	< 100		
Partition coefficient n-octanol/water (Log Pow)	3.01		
Methanol (67-56-1)			
Bioconcentration factor (BCF REACH)	< 10		
Partition coefficient n-octanol/water (Log Pow)	-0.77		
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil (72623-87-1)			
Partition coefficient n-octanol/water (Log Pow)	> 6		

# 12.4. Mobility in soil

Hydrocarbons, C10-C13, aromatics, <1% naph	nthalene
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.

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naphthalene (91-20-3)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.6

# 12.5. Results of PBT and vPvB assessment

Component Compon		
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	N-Phenyl-1-naphthylamin (90-30-2)	
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	N-Phenyl-1-naphthylamin (90-30-2)	

### 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 n	umber			'
Not regulated for transport				
14.2. UN proper shipping	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard c	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
No supplementary informatio	n available	1	1	1

# 14.6. Special precautions for user

#### **Overland transport**

No data available

#### Transport by sea

No data available

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#### 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

#### **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

## **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

#### **Explosives Precursors Regulation (EU 2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (EC 273/2004)**

Contains 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)

Name	CN designation	CAS-No.	CN code	Category, Subcategory	Threshold	Annex
Toluene		108-88-3	2902 30 00	Category 3		Annex I

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

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

# Safety Data Sheet

Indication of changes		
Section	Changed item	Comments
3	Composition/information on ingredients	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	
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 disruptor	

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Full text of H- and EUH	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		
Carc. 2	Carcinogenicity, Category 2		
EUH066	Repeated exposure may cause skin dryness or cracking.		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Flam. Liq. 2	Flammable liquids, Category 2		
Flam. Sol. 2	Flammable solids, Category 2		
Repr. 2	Reproductive toxicity, Category 2		
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 1	Specific target organ toxicity – single exposure, Category 1		
STOT SE 2	Specific target organ toxicity – Single exposure, Category 2		
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation		
H225	Highly flammable liquid and vapour.		
H228	Flammable solid.		
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.		
H318	Causes serious eye damage.		
H331	Toxic if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H351	Suspected of causing cancer.		
H361d	Suspected of damaging the unborn child.		
H370	Causes damage to organs.		
H371	May cause damage to organs.		
	May cause damage to organs through prolonged or repeated exposure.		

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Full text of H- and EUH-statements:		
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
EUH208	Contains N-Phenyl-1-naphthylamin(90-30-2). May produce an allergic reaction.	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.