



# Turbo Cleaner (Aerosol)

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 08.01.2024 Revision date: 09.05.2023 Version: 3.02

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Turbo Cleaner (Aerosol)  
Product code : W28679  
Vaporizer : Aerosol  
Product group : Trade product

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Internal cleaning from petrol and diesel engines.

##### 1.2.2. Uses advised against

No additional information available

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

##### Supplier

ITW ADDITIVES INTL B.V.  
Industriepark-West 46  
9100 Sint-Niklaas  
BELGIUM  
T +32 3 766 60 20 - F +32 3 778 16 56  
[msds@wynns.eu](mailto:msds@wynns.eu) - [www.wynns.com](http://www.wynns.com)

##### Distributor

ITW Automotive Aftermarket  
Saxon House, 2-4 Victoria Street  
SL4 1EN Windsor  
UNITED KINGDOM  
T +44 (0)24 7647 2634  
[sales@wynns.uk.com](mailto:sales@wynns.uk.com) - [www.wynns.uk.com](http://www.wynns.uk.com)

##### Distributor

Wynn's Automotive France S.A.S.  
2 Av. Léonard de Vinci Z.A. Europarc  
33600 PESSAC Cedex  
FRANCE  
T +33 5 57 26 29 00  
[contact@wynns.fr](mailto:contact@wynns.fr) - [www.wynns.fr](http://www.wynns.fr)

##### Distributor

Krafft S.L.U.  
Carretera de Urnieta, s/n  
20140 Andoain - Guipúzcoa  
ESPAÑA  
T +34 943 410 400 - F +34 943 410 440  
[msds@krafft.es](mailto:msds@krafft.es) - [www.krafft.es](http://www.krafft.es)

#### 1.4. Emergency telephone number

Emergency number : BIG: +32(0)14 58 45 45 (NL FR EN DE)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Aerosol, Category 1	H222;H229
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Specific target organ toxicity – Single exposure, Category 3,	H336
Narcosis	
Hazardous to the aquatic environment – Chronic Hazard,	H411
Category 2	

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

##### Adverse physicochemical, human health and environmental effects

No additional information available

# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

### 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Contains :

Hydrocarbons, C10, aromatics, <1% naphthalene; (Poly(oxy-1,2-ethanediyl),a-(2-propylheptyl)-w-hydroxy- ) ; Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)

Hazard statements (CLP) :

H222 - Extremely flammable aerosol.

H229 - Pressurised container: May burst if heated.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H336 - May cause drowsiness or dizziness.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P261 - Avoid breathing vapours, spray.

P280 - Wear protective gloves, eye protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician.

P102 - Keep out of reach of children.

P210 - Keep away from hot surfaces, open flames, sparks, heat. – No smoking.

P211 - Do not spray on an open flame or other ignition source.

P251 - Pressurized container: Do not pierce or burn, even after use.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

EUH-statements :

EUH208 - Contains 1-(N,N-Diethanolaminomethyl)-5-methylbenzotriazole, 1-(N,N-Diethanolaminomethyl)-4-methylbenzotriazole. May produce an allergic reaction.

### 2.3. Other hazards

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

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 is 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]
Hydrocarbons, C10, aromatics, <1% naphthalene	CAS-No.: 1189173-42-9 EC-No.: 918-811-1 REACH-no: 01-2119463583-34	25 – 50	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066
2-butoxyethanol substance with a Community workplace exposure limit	CAS-No.: 111-76-2 EC-No.: 203-905-0 EC Index-No.: 603-014-00-0 REACH-no: 01-2119475108-36	5 – 10	Acute Tox. 4 (Oral), H302 (ATE=1200 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 (ATE=3 mg/l) Skin Irrit. 2, H315 Eye Irrit. 2, H319

# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
(2-methoxymethylethoxy)propanol substance with a Community workplace exposure limit	CAS-No.: 34590-94-8 EC-No.: 252-104-2 REACH-no: 01-2119450011-60	5 – 10	Not classified
2-(2-butoxyethoxy)ethanol substance with a Community workplace exposure limit	CAS-No.: 112-34-5 EC-No.: 203-961-6 EC Index-No.: 603-096-00-8 REACH-no: 01-2119475104-44	2,5 – 5	Eye Irrit. 2, H319
(Poly(oxy-1,2-ethanediyl),a-(2-propylheptyl)-w-hydroxy- )	CAS-No.: 160875-66-1 EC-No.: Polymer	2,5 – 5	Acute Tox. 4 (Oral), H302 (ATE=2000 mg/kg bodyweight) Eye Dam. 1, H318
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	EC-No.: 931-329-6 REACH-no: 01-2119490100-53	1 – 2,5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl)	CAS-No.: 68603-38-3 EC-No.: 271-653-9 REACH-no: 01-2119951823-33	1 – 2,5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
Ammonium hydroxide substance with a Community workplace exposure limit	CAS-No.: 1336-21-6 EC-No.: 215-647-6 EC Index-No.: 007-001-01-2 REACH-no: 01-2119982985-14	0,1 – 1	Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Acute 1, H400
1-(N,N-Diethanolaminomethyl)-5-methylbenzotriazole	CAS-No.: 80584-88-9 EC-No.: 279-501-3	0,1 – 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
1-(N,N-Diethanolaminomethyl)-4-methylbenzotriazole	CAS-No.: 80584-89-0 EC-No.: 279-502-9	0,1 – 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412

### Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
Ammonium hydroxide	CAS-No.: 1336-21-6 EC-No.: 215-647-6 EC Index-No.: 007-001-01-2 REACH-no: 01-2119982985-14	(5 ≤ C < 100) STOT SE 3, H335

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.

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

# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Check the vital functions. Keep victim at rest in half upright position. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Keep watching the victim. Give psychological aid. Prevent cooling by covering the victim (no warming up). Keep the victim calm, avoid physical strain. If necessary seek medical advice.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Contact ophthalmologist immediately.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. As it is a spray can packaging it is most unlikely that large quantities will be swallowed.

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

Symptoms/effects after inhalation	: Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination. Nausea. May cause respiratory irritation.
Symptoms/effects after skin contact	: skin irritation and erythema. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	: Causes serious eye damage.

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. AFFF foam. ABC-powder.
Unsuitable extinguishing media	: Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard	: Extremely flammable aerosol. Heating may cause a fire or explosion.
Explosion hazard	: No direct explosion hazard. Pressurised container: May burst if heated.
Reactivity in case of fire	: Upon combustion: CO and CO <sub>2</sub> are formed.

#### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Protective equipment	: Wear suitable gloves and eye/face protection. protective clothing. Large spills/in enclosed spaces: compressed air apparatus.
Emergency procedures	: Mark the danger area. Close doors and windows of adjacent premises. Prevent flow to low areas. Stop engines and no smoking. No naked flames, sparks, and do not smoke. Large spills/in confined spaces: consider evacuation. Use spark-/explosionproof appliances and lighting system. Take off contaminated clothing. Stay upwind.

# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

### 6.1.2. For emergency responders

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.  
Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Clean with detergents. Avoid solvent cleaners. Wash clothing and equipment after handling. This material and its container must be disposed of in a safe way, and as per local legislation.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Do not pierce or burn, even after use. Avoid contact with skin and eyes.  
Precautions for safe handling : Meet the legal requirements. Keep away from sources of ignition - No smoking. Keep away from naked flames/heat. Use spark-/explosionproof appliances and lighting system. Provide good ventilation in process area to prevent formation of vapour. Presents no particular risk when handled in accordance with good occupational hygiene practice.  
Hygiene measures : Use good personal hygiene practices. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.

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

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
Storage temperature : ≤ 45 °C  
Heat and ignition sources : Keep away from sources of ignition - No smoking.  
Information on mixed storage : Keep away from strong acids and strong oxidizers.  
Storage area : Fireproof storeroom. Meet the legal requirements. Store in a dry place. Store in a well-ventilated place. Protect from heat and direct sunlight. Ventilation along the floor.  
Special rules on packaging : Labelling according to. Meet the legal requirements.  
Packaging materials : Pressurised small gas containers (aerosol cans).

### 7.3. Specific end use(s)

See product bulletin for detailed information.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

Hydrocarbons, C10, aromatics, <1% naphthalene (1189173-42-9)	
Belgium - Occupational Exposure Limits	
OEL TWA	200 mg/m <sup>3</sup>
2-butoxyethanol (111-76-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-Butoxyethanol
IOEL TWA	98 mg/m <sup>3</sup>

# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

<b>2-butoxyethanol (111-76-2)</b>	
IOEL TWA [ppm]	20 ppm
IOEL STEL	246 mg/m <sup>3</sup>
IOEL STEL [ppm]	50 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>Belgium - Occupational Exposure Limits</b>	
Local name	2-Butoxyéthanol # 2-Butoxy-ethanol
OEL TWA	98 mg/m <sup>3</sup>
OEL TWA	20 ppm
OEL STEL	246 mg/m <sup>3</sup>
OEL STEL	50 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	49 mg/m <sup>3</sup>
VME (OEL TWA) [ppm]	10 ppm
VLE (OEL C/STEL)	246 mg/m <sup>3</sup>
VLE (OEL C/STEL) [ppm]	50 ppm
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	98 mg/m <sup>3</sup>
CK (OEL STEL)	246 mg/m <sup>3</sup>
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	100 mg/m <sup>3</sup>
TGG-8u (OEL TWA) [ppm]	20 ppm
TGG-15min (OEL STEL)	246 mg/m <sup>3</sup>
TGG-15min (OEL STEL) [ppm]	50 ppm
<b>(2-methoxymethylethoxy)propanol (34590-94-8)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	308 mg/m <sup>3</sup>
IOEL TWA [ppm]	50 ppm
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	308 mg/m <sup>3</sup>
OEL TWA	50 ppm
Remark	D
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	308 mg/m <sup>3</sup>
CK (OEL STEL)	308 mg/m <sup>3</sup>

# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

<b>2-(2-butoxyethoxy)ethanol (112-34-5)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	2-(2-Butoxyethoxy)ethanol
IOEL TWA	67,5 mg/m <sup>3</sup>
IOEL TWA [ppm]	10 ppm
IOEL STEL	101,2 mg/m <sup>3</sup>
IOEL STEL [ppm]	15 ppm
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
<b>Belgium - Occupational Exposure Limits</b>	
Local name	2-(2-Butoxyéthoxy)éthanol # 2-(2-Butoxyethoxy)ethanol
OEL TWA	67,5 mg/m <sup>3</sup>
OEL TWA	10 ppm
OEL STEL	101,2 mg/m <sup>3</sup>
OEL STEL	15 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	101,2 mg/m <sup>3</sup>
VME (OEL TWA) [ppm]	15 ppm
VLE (OEL C/STEL)	67,5 mg/m <sup>3</sup>
VLE (OEL C/STEL) [ppm]	10 ppm
<b>Hungary - Occupational Exposure Limits</b>	
AK (OEL TWA)	67,5 mg/m <sup>3</sup>
CK (OEL STEL)	101,2 mg/m <sup>3</sup>
<b>Ammonium hydroxide (1336-21-6)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
IOEL TWA	14 mg/m <sup>3</sup>
IOEL TWA [ppm]	20 ppm
IOEL STEL	36 mg/m <sup>3</sup>
IOEL STEL [ppm]	50 ppm
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	14 mg/m <sup>3</sup>
OEL TWA	20 ppm
OEL STEL	36 mg/m <sup>3</sup>
OEL STEL	50 ppm
<b>Netherlands - Occupational Exposure Limits</b>	
TGG-8u (OEL TWA)	14 mg/m <sup>3</sup>
TGG-8u (OEL TWA) [ppm]	20 ppm
TGG-15min (OEL STEL)	36 mg/m <sup>3</sup>
TGG-15min (OEL STEL) [ppm]	50 ppm

# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

### 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

<b>Hydrocarbons, C10, aromatics, &lt;1% naphthalene (1189173-42-9)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	12,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	151 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	7,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	32 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	7,5 mg/kg bodyweight/day
<b>2-butoxyethanol (111-76-2)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - systemic effects, dermal	89 mg/kg bodyweight/day
Acute - systemic effects, inhalation	1091 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	125 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	98 mg/m <sup>3</sup>
Long-term - local effects, inhalation	246 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, dermal	89 mg/kg bodyweight
Acute - systemic effects, inhalation	426 mg/m <sup>3</sup>
Acute - systemic effects, oral	26,7 mg/kg bodyweight
Long-term - systemic effects, oral	6,3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	59 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	75 mg/kg bodyweight/day
Long-term - local effects, inhalation	147 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	8,8 mg/l
PNEC aqua (marine water)	0,88 mg/l
PNEC aqua (intermittent, freshwater)	9,1 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	34,6 mg/kg dwt
PNEC sediment (marine water)	3,46 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	2,33 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	463 mg/l



# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

### (2-methoxymethylethoxy)propanol (34590-94-8)

#### DNEL/DMEL (Workers)

Long-term - systemic effects, dermal	283 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	308 mg/m <sup>3</sup>

#### DNEL/DMEL (General population)

Long-term - systemic effects, oral	36 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	37,2 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	121 mg/kg bodyweight/day

#### PNEC (Water)

PNEC aqua (freshwater)	19 mg/l
PNEC aqua (marine water)	1,9 mg/l
PNEC aqua (intermittent, freshwater)	190 mg/l

#### PNEC (Sediment)

PNEC sediment (freshwater)	70,2 mg/kg dwt
PNEC sediment (marine water)	7,02 mg/kg dwt

#### PNEC (Soil)

PNEC soil	2,74 mg/kg dwt
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#### PNEC (STP)

PNEC sewage treatment plant	4168 mg/l
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### 2-(2-butoxyethoxy)ethanol (112-34-5)

#### DNEL/DMEL (Workers)

Acute - local effects, inhalation	101,2 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	83 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	67,5 mg/m <sup>3</sup>
Long-term - local effects, inhalation	67,5 mg/m <sup>3</sup>

#### DNEL/DMEL (General population)

Acute - local effects, inhalation	60,7 mg/m <sup>3</sup>
Long-term - systemic effects, oral	5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	40,5 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	50 mg/kg bodyweight/day
Long-term - local effects, inhalation	40,5 mg/m <sup>3</sup>

#### PNEC (Water)

PNEC aqua (freshwater)	1,1 mg/l
PNEC aqua (marine water)	0,11 mg/l
PNEC aqua (intermittent, freshwater)	11 mg/l

#### PNEC (Sediment)

PNEC sediment (freshwater)	4,4 mg/kg dwt
PNEC sediment (marine water)	0,44 mg/kg dwt

#### PNEC (Soil)

PNEC soil	0,32 mg/kg dwt
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# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

<b>2-(2-butoxyethoxy)ethanol (112-34-5)</b>	
<b>PNEC (Oral)</b>	
PNEC oral (secondary poisoning)	56 mg/kg food
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	200 mg/l
<b>Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	4,16 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	73,4 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects,oral	6,25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	21,73 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	2,5 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,007 mg/l
PNEC aqua (marine water)	0,0007 mg/l
PNEC aqua (intermittent, freshwater)	0,024 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	0,195 mg/kg dwt
PNEC sediment (marine water)	0,0195 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,0348 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	830 mg/l
<b>Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) (68603-38-3)</b>	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	4,16 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	73,44 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects,oral	6,25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	21,73 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	2,5 mg/kg bodyweight/day
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	0,83 mg/l

### 8.1.5. Control banding

No additional information available

# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Does not require any specific or particular technical measures.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment:

Safety glasses. Gloves.

##### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

No additional information available

##### 8.2.2.2. Skin protection

##### Hand protection:

Neoprene. Nitrile rubber. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Time of penetration is to be checked with the glove producer

##### 8.2.2.3. Respiratory protection

No additional information available

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

##### Other information:

Thickness of the glove material >0.1 mm. Breakthrough time : >30'.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Not available
Appearance	: Aerosol.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not applicable
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Partially soluble.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 850 kg/m <sup>3</sup> @20°C
Relative density	: Not available
Relative vapour density at 20°C	: Not available

# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

Particle characteristics : Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

% of flammable ingredients : 58 %

#### 9.2.2. Other safety characteristics

Additional information : Physical and chemical properties of the active product without gas. The physical and chemical data in this section are typical values for this product and are not intended as product specifications.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Extremely flammable aerosol. Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Keep away from strong acids and strong oxidizers.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

On burning: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide. 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

Hydrocarbons, C10, aromatics, <1% naphthalene (1189173-42-9)	
LD50 oral rat	6318 mg/kg bodyweight Cri:CDBR
LD50 dermal rabbit	> 2000 mg/kg bodyweight New Zealand White
LC50 Inhalation - Rat	> 4,688 mg/l/4h Sprague-Dawley
2-butoxyethanol (111-76-2)	
LD50 oral rat	1200 mg/kg bodyweight Rat
LD50 dermal rat	> 2000 mg/kg bodyweight Sprague-Dawley
(2-methoxymethylethoxy)propanol (34590-94-8)	
LD50 oral rat	> 5000 mg/kg bodyweight Sprague-Dawley
LD50 dermal rabbit	> 2000 mg/kg bodyweight New Zealand White

# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

<b>2-(2-butoxyethoxy)ethanol (112-34-5)</b>	
LD50 oral rat	7291 mg/kg bodyweight COBS, CD, BR
LD50 dermal rabbit	2764 mg/kg bodyweight New Zealand White
LC50 Inhalation - Rat [ppm]	> 29 ppm @2h
<b>(Poly(oxy-1,2-ethanediyl),a-(2-propylheptyl)-w-hydroxy- ) (160875-66-1)</b>	
LD50 oral rat	> 300 (≤ 2000) mg/kg bodyweight
<b>Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) (68603-38-3)</b>	
LD50 oral rat	> 3000 mg/kg bodyweight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause drowsiness or dizziness.
<b>Hydrocarbons, C10, aromatics, &lt;1% naphthalene (1189173-42-9)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>Ammonium hydroxide (1336-21-6)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
<b>Turbo Cleaner (Aerosol)</b>	
Vaporizer	Aerosol
<b>Hydrocarbons, C10, aromatics, &lt;1% naphthalene (1189173-42-9)</b>	
Viscosity, kinematic	< 2 mm <sup>2</sup> /s
Aliphatic, alicyclic or aromatic hydrocarbon	Yes
<b>2-butoxyethanol (111-76-2)</b>	
Viscosity, kinematic	< 3,7 mm <sup>2</sup> /s
<b>2-(2-butoxyethoxy)ethanol (112-34-5)</b>	
Viscosity, kinematic	< 6,1 mm <sup>2</sup> /s
<b>(Poly(oxy-1,2-ethanediyl),a-(2-propylheptyl)-w-hydroxy- ) (160875-66-1)</b>	
Viscosity, kinematic	60,606 mm <sup>2</sup> /s
Aliphatic, alicyclic or aromatic hydrocarbon	Yes

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : This product contains hazardous components for the aquatic environment.  
Ecology - water : Toxic to aquatic life with long lasting effects.

# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

<b>Hydrocarbons, C10, aromatics, &lt;1% naphthalene (1189173-42-9)</b>	
LC50 - Fish [1]	96h 2 (≤ 5) mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	48h 3 (≤ 10) mg/l Daphnia magna
EC50 - Other aquatic organisms [1]	72h 1 (≤ 3) mg/l Pseudokirchneriella subcapitata
NOEC chronic fish	0,441 mg/l
NOEC chronic crustacea	0,771 mg/l
NOEC chronic algae	1 mg/l
<b>2-butoxyethanol (111-76-2)</b>	
LC50 - Fish [1]	96h 1464 mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	48h 1800 mg/l Daphnia magna
EC50 - Other aquatic organisms [1]	72h 911 mg/l Pseudokirchneriella subcapitata
NOEC (acute)	72h 88 mg/l Pseudokirchneriella subcapitata
<b>(2-methoxymethylethoxy)propanol (34590-94-8)</b>	
LC50 - Fish [1]	> 1930 mg/l @96h Cyprinodon variegatus
EC50 - Other aquatic organisms [1]	48h 1930 mg/l Acartia tonsa
EC50 - Other aquatic organisms [2]	72h 7935 mg/l Skeletonema grethae
LOEC (acute)	48h 2200 mg/l Acartia tonsa
NOEC (acute)	96h 1930 mg/l Cyprinodon variegatus
<b>2-(2-butoxyethoxy)ethanol (112-34-5)</b>	
LC50 - Fish [1]	96h 1300 mg/l Lepomis macrochirus
EC50 - Crustacea [1]	24h 2850 mg/l Daphnia magna
EC50 - Other aquatic organisms [1]	72h 1101 mg/l Pseudokirchnerella subcapitata
<b>(Poly(oxy-1,2-ethanediyl),a-(2-propylheptyl)-w-hydroxy- ) (160875-66-1)</b>	
EC50 - Crustacea [1]	> 10 (≤ 100) mg/l @48h Daphnia magna
EC50 - Other aquatic organisms [1]	> 10 (≤ 100) mg/l @72h Scenedesmus subspicatus
NOEC (chronic)	> 1 mg/l
<b>Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)</b>	
LC50 - Fish [1]	96h 2,4 mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	48h 3,2 mg/l Daphnia magna
<b>Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) (68603-38-3)</b>	
LC50 - Fish [1]	96h 1,2 mg/l oncorhynchus mykiss
NOEC (acute)	72h 2 mg/l Desmodesmus subspicatus
NOEC (chronic)	> 0,01 (≤ 0,1) mg/l @21d daphnia magna
<b>Ammonium hydroxide (1336-21-6)</b>	
EC50 - Crustacea [1]	48d 101 mg/l daphnia magna
EC50 - Other aquatic organisms [1]	18d 2700 mg/l chlorella vulgaris

# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

### 12.2. Persistence and degradability

#### Hydrocarbons, C10, aromatics, <1% naphthalene (1189173-42-9)

Persistence and degradability	Readily biodegradable.
Biodegradation	50 %

#### 2-butoxyethanol (111-76-2)

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

#### (Poly(oxy-1,2-ethanediyl),a-(2-propylheptyl)-w-hydroxy- ) (160875-66-1)

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

#### Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) (68603-38-3)

Persistence and degradability	biodegradable.
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### 12.3. Bioaccumulative potential

#### 2-butoxyethanol (111-76-2)

Bioaccumulative potential	Slightly bioaccumulative.
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#### (2-methoxymethylethoxy)propanol (34590-94-8)

Partition coefficient n-octanol/water (Log Pow)	1,01
-------------------------------------------------	------

#### 2-(2-butoxyethoxy)ethanol (112-34-5)

Partition coefficient n-octanol/water (Log Pow)	1
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#### (Poly(oxy-1,2-ethanediyl),a-(2-propylheptyl)-w-hydroxy- ) (160875-66-1)

Bioaccumulative potential	Bioaccumulation unlikely.
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### 12.4. Mobility in soil

#### 2-butoxyethanol (111-76-2)

Ecology - soil	Small adsorption.
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### 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

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not pierce or burn, even after use. Remove to an authorized waste treatment plant.
European List of Waste (LoW, EC 2000/532)	: 14 06 03* - other solvents and solvent mixtures 15 01 11* - metallic packaging containing a dangerous solid porous matrix (e.g. asbestos), including empty pressure containers

# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
<b>14.2. UN proper shipping name</b>				
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
<b>Transport document description</b>				
UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS
<b>14.3. Transport hazard class(es)</b>				
2.1	2.1	2.1	2.1	2.1
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: No	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: 5F
Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P207
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V14
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV12
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D

#### Transport by sea

Special provisions (IMDG)	: 63, 190, 277, 327, 344, 381, 959
Limited quantities (IMDG)	: SP277
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P207, LP200
Special packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
Stowage category (IMDG)	: None



# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

Stowage and handling (IMDG) : SW1, SW22  
Segregation (IMDG) : SG69

### Air transport

PCA Excepted quantities (IATA) : E0  
PCA Limited quantities (IATA) : Y203  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA packing instructions (IATA) : 203  
PCA max net quantity (IATA) : 75kg  
CAO packing instructions (IATA) : 203  
CAO max net quantity (IATA) : 150kg  
Special provisions (IATA) : A145, A167, A802  
ERG code (IATA) : 10L

### Inland waterway transport

Classification code (ADN) : 5F  
Special provisions (ADN) : 190, 327, 344, 625  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E0  
Equipment required (ADN) : PP, EX, A  
Ventilation (ADN) : VE01, VE04  
Number of blue cones/lights (ADN) : 1

### Rail transport

Classification code (RID) : 5F  
Special provisions (RID) : 190, 327, 344, 625  
Limited quantities (RID) : 1L  
Excepted quantities (RID) : E0  
Packing instructions (RID) : P207, LP200  
Special packing provisions (RID) : PP87, RR6, L2  
Mixed packing provisions (RID) : MP9  
Transport category (RID) : 2  
Special provisions for carriage – Packages (RID) : W14  
Special provisions for carriage - Loading, unloading and handling (RID) : CW9, CW12  
Colis express (express parcels) (RID) : CE2  
Hazard identification number (RID) : 23

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

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

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

# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### Explosives Precursors Regulation (2019/1148)

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

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

#### France

Occupational diseases	
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

#### Germany

- Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).
- Chemicals Prohibition Ordinance (ChemVerbotsV) : This product is subject to ChemVerbotsV Annex 1 Entry 1. Paragraph 1) Coated and uncoated wood-based materials (chipboard, blockboard, veneer panels, and fibreboard) may not be placed on the market if the equalizing concentration of formaldehyde in the air in a test room exceeds 0.1 ml / cbm (ppm). Paragraph 2) Furniture that contains wood-based materials that do not meet the requirements of Paragraph 1 may not be placed on the market. Paragraph 1 is also deemed to have been fulfilled if the furniture complies with the equalization concentration specified in paragraph 1 during a whole-body test. Paragraph 3) Detergents, cleaning agents and care products with a mass content of more than 0.2% formaldehyde may not be placed on the market.
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

- SZW-lijst van kankerverwekkende stoffen : Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) is listed
- SZW-lijst van mutagene stoffen : Amides, C16-18 and C18-unsatd., N,N-bis(hydroxyethyl) is listed
- SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

#### Denmark

- Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Full text of H- and EUH-statements:	
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 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2

# Turbo Cleaner (Aerosol)

## Safety Data Sheet

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

Full text of H- and EUH-statements:	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains 1-(N,N-Diethanolaminomethyl)-5-methylbenzotriazole, 1-(N,N-Diethanolaminomethyl)-4-methylbenzotriazole. May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

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.