



# Turbo Cleaner (Aerosol)

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

#### 1.1. Product identifier

Product form : Mixtures  
Product name : Turbo Cleaner (Aerosol)  
Product code : W28679

#### 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 of petrol fuel systems including fuel injectors.

##### 1.2.2. Uses advised against

No additional information available

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

Wynn's Belgium  
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)

#### 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 1	H222;H229
Skin Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 3	H336
Aquatic Chronic 2	H411

Full text of hazard classes and H-statements : see section 16

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

No additional information available

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) : Danger

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

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

EUH-statements : EUH208 - Contains isomeric mixture; 2,2'-[[4or5-methyl-1H-benzotriazol-1-yl)-methyl]imino]bisethanol. May produce an allergic reaction

Precautionary statements (CLP) : P261 - Avoid breathing vapours, spray  
P280 - Wear eye protection, protective gloves  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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P310 - Immediately call a POISON CENTER, a doctor  
P102 - Keep out of reach of children  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P211 - Do not spray on an open flame or other ignition source  
P251 - Do not pierce or burn, even after use  
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	% w	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C10, aromatics, <1% naphthalene	(EC-No.) 918-811-1 (REACH-no) 01-2119463583-34	25 - 50	STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
2-butoxyethanol	(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 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
Butane n-	(CAS-No.) 106-97-8 (EC-No.) 203-448-7 (EC Index-No.) 601-004-00-0 (REACH-no) 01-2119474691-32	5 - 10	Flam. Gas 1, H220
Propane	(CAS-No.) 74-98-6 (EC-No.) 200-827-9 (EC Index-No.) 601-003-00-5 (REACH-no) 01-2119486944-21	5 - 10	Flam. Gas 1, H220
(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	(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 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
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	(CAS-No.) 1336-21-6 (EC-No.) 215-647-6 (EC Index-No.) 007-001-01-2	0,1 - 1	Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
isomeric mixture; 2,2'-[[[4or5-methyl-1H- benzotriazol-1-yl)-methyl]imino]bisethanol	(CAS-No.) 88488-37-6 (80584-88-9 + 80584-89-0) (EC-No.) 279-501-3 + 279-502-9	0,1 - 1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Naphthalene	(CAS-No.) 91-20-3 (EC-No.) 202-049-5 (EC Index-No.) 601-052-00-2 (REACH-no) 01-2119561346-37	0,1 - 1	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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	(C >= 5) STOT SE 3, H335	

Full text of H-statements: see section 16

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### 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 or doctor/physician 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. Consult an eye specialist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician 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. May cause respiratory irritation.
- Symptoms/effects after skin contact : Causes skin irritation. Tingling/irritation of the skin. May cause an allergic skin reaction. 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. Contains gas under pressure; may explode if heated. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

#### 5.3. Advice for firefighters

- Firefighting instructions : Cool closed containers exposed to fire with water spray. 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. Wear suitable respiratory equipment in case of insufficient ventilation.
- Emergency procedures : Mark the danger area. Stop engines and no smoking. Keep upwind. Prevent flow to low areas. No flames, no sparks. Eliminate all sources of ignition. Wash contaminated clothes.

##### 6.1.2. For emergency responders

- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Toxic to aquatic life with long lasting effects. Do not allow product to spread into the environment.

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

- For containment : Contain the spilled material by bunding. Collect spillage.

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Methods for cleaning up	: Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Clean preferably with a detergent - Avoid the use of solvents.
Other information	: Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed	: Pressurized container: Do not pierce or burn, even after use. Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling	: Meet the legal requirements. Avoid contact with skin and eyes. Take precautionary measures against static discharge. Provide good ventilation in process area to prevent formation of vapour. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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 in fireproof place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Storage temperature	: ≤ 45 °C
Heat and ignition sources	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Information on mixed storage	: Store separately.
Storage area	: Meet the legal requirements. Fireproof storeroom. Ventilation along the floor.
Special rules on packaging	: Meet the legal requirements. Labelling according to.
Packaging materials	: Aerosol.

### 7.3. Specific end use(s)

See product bulletin for detailed information.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Hydrocarbons, C10, aromatics, <1% naphthalene

Belgium	Limit value (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
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#### 2-butoxyethanol (111-76-2)

EU	IOELV TWA (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	50 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	98 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	20 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	50 ppm
Belgium	Remark (BE)	D: de opname van het agens via de huid, de slijmvliezen of de ogen vormt een belangrijk deel van de totale blootstelling. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	100 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 8H (ppm)	20 ppm
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (ppm)	50 ppm

#### Butane n- (106-97-8)

Belgium	Limit value (ppm)	1000 ppm
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#### Propane (74-98-6)

Belgium	Limit value (ppm)	1000 ppm
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#### (2-methoxymethylethoxy)propanol (34590-94-8)

EU	IOELV TWA (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
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### (2-methoxymethylethoxy)propanol (34590-94-8)

EU	IOELV TWA (ppm)	50 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	50 ppm
Belgium	Remark (BE)	D

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

EU	IOELV TWA (mg/m <sup>3</sup> )	67,5 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	101,2 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	15 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	67,5 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	10 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	101,2 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	15 ppm
France	VLE (mg/m <sup>3</sup> )	67,5 mg/m <sup>3</sup>
France	VLE (ppm)	10 ppm
France	VME (mg/m <sup>3</sup> )	101,2 mg/m <sup>3</sup>
France	VME (ppm)	15 ppm

### Ammonium hydroxide (1336-21-6)

EU	IOELV TWA (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m <sup>3</sup> )	36 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	50 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	20 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	36 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	50 ppm
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	14 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 8H (ppm)	20 ppm
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	36 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (ppm)	50 ppm

### Naphthalene (91-20-3)

EU	IOELV TWA (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	10 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	53 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	10 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	80 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	15 ppm
Belgium	Remark (BE)	D

### Hydrocarbons, C10, aromatics, <1% naphthalene

DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	12,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	151 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
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

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

DNEL/DMEL (Workers)	
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>
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	89 mg/kg bodyweight

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

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>
PNEC (Water)	
PNEC aqua (freshwater)	8,8 mg/l
PNEC aqua (marine water)	0,88 mg/l
PNEC aqua (intermittent, freshwater)	9,1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	34,6 mg/kg dwt
PNEC sediment (marine water)	3,46 mg/kg dwt
PNEC (Soil)	
PNEC soil	2,33 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	463 mg/l

### **(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
PNEC (STP)	
PNEC sewage treatment plant	4168 mg/l

### **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)	

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

PNEC soil	0,32 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	56 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	200 mg/l

### Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)

DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	4,16 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	73,4 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
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
PNEC (Water)	
PNEC aqua (freshwater)	0,007 mg/l
PNEC aqua (marine water)	0,0007 mg/l
PNEC aqua (intermittent, freshwater)	0,024 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,195 mg/kg dwt
PNEC sediment (marine water)	0,0195 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,0348 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	830 mg/l

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

DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	4,16 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	73,44 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
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
PNEC (STP)	
PNEC sewage treatment plant	0,83 mg/l

### Naphthalene (91-20-3)

DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	3,57 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	25 mg/m <sup>3</sup>
Long-term - local effects, inhalation	25 mg/m <sup>3</sup>
PNEC (STP)	
PNEC sewage treatment plant	2,9 mg/l

## 8.2. Exposure controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Vapours are heavier than air and may spread along floors. Provide local exhaust or general room ventilation. Does not require any specific or particular technical measures.

Personal protective equipment

: Safety glasses. Gloves.



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.

Other information

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

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### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Aerosol.
Colour	: No data available
Odour	: characteristic.
Odour threshold	: No data available
pH	:
Relative evaporation rate (butylacetate=1)	: No data available
refraction index	:
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density @20°C	: 842 kg/m <sup>3</sup>
Solubility	: Partially soluble.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic @40°C	: No data available
Viscosity, dynamic @40°C	: No data available
Viscosity	:
Viscosity Index	:
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

VOC content	: 61,35 %
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 heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from strong acids and strong oxidizers.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. On burning: release of harmful/irritant gases/vapours. Carbon monoxide. Carbon dioxide.



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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

##### Hydrocarbons, C10, aromatics, <1% naphthalene

LD50 oral rat 6318 mg/kg bodyweight CrI:CDBR  
LD50 dermal rabbit > 2000 mg/kg bodyweight New Zealand White  
LC50 inhalation rat (mg/l) > 4,688 mg/l/4h Sprague-Dawley  
ATE CLP (oral) 6318,000 mg/kg bodyweight

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

LD50 oral rat 1746 mg/kg bodyweight COBS, CD, BR  
LD50 dermal rat > 2000 mg/kg bodyweight Sprague-Dawley  
LD50 dermal rabbit 24h 435 mg/kg bodyweight New Zealand White  
LC50 inhalation rat (mg/l) 2,2 mg/l/4h Fischer 344  
ATE CLP (oral) 1746,000 mg/kg bodyweight  
ATE CLP (dermal) 1100,000 mg/kg bodyweight  
ATE CLP (vapours) 2,200 mg/l/4h  
ATE CLP (dust,mist) 2,200 mg/l/4h

##### (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

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

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  
ATE CLP (oral) 7291,000 mg/kg bodyweight  
ATE CLP (dermal) 2764,000 mg/kg bodyweight

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

LD50 oral rat > 300 (≤ 2000) mg/kg bodyweight  
ATE CLP (oral) 2000,000 mg/kg bodyweight

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

LD50 oral rat > 3000 mg/kg bodyweight

##### isomeric mixture; 2,2'-[[[(4or5-methyl-1H-benzotriazol-1-yl)-methyl]imino]bisethanol (88488-37-6 (80584-88-9 + 80584-89-0))

ATE CLP (oral) 500,000 mg/kg bodyweight

##### Naphthalene (91-20-3)

LD50 oral rat > 2000 mg/kg bodyweight Sprague-Dawley  
LD50 dermal rat > 2500 mg/kg bodyweight Sherman  
ATE CLP (oral) 500,000 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.  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified

### 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.

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### Hydrocarbons, C10, aromatics, <1% naphthalene

LC50 fish 1	96h 2 - 5 mg/l Oncorhynchus mykiss
EC50 Daphnia 1	48h 10 mg/l Daphnia magna
EC50 other aquatic organisms 1	72h 1 - 3 mg/l Pseudokirchneriella subcapitata

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

LC50 fish 1	96h 1464 mg/l Oncorhynchus mykiss
EC50 Daphnia 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

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

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

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

LC50 fish 1	96h 1300 mg/l Lepomis macrochirus
EC50 Daphnia 1	24h 2850 mg/l Daphnia magna
EC50 other aquatic organisms 1	72h 1101 mg/l Pseudokirchnerella subcapitata

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

EC50 Daphnia 1	> 10 ( $\leq$ 100) mg/l @48h Daphnia magna
EC50 other aquatic organisms 1	> 10 ( $\leq$ 100) mg/l @72h Scenedesmus subspicatus
NOEC (chronic)	> 1 mg/l

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

LC50 fish 1	96h 1,2 mg/l oncorhynchus mykiss
NOEC (acute)	72h 2 mg/l Desmodesmus subspicatus
NOEC (chronic)	> 0,01 ( $\leq$ 0,1) mg/l @21d daphnia magna

### Ammonium hydroxide (1336-21-6)

EC50 Daphnia 1	48h 101 mg/l daphnia magna
EC50 other aquatic organisms 1	18d 2700 mg/l chlorella vulgaris
NOEC (chronic)	96h 0,79 mg/l daphnia magna

### Naphthalene (91-20-3)

LC50 fish 1	96h 1,6 mg/l Oncorhynchus mykiss
EC50 Daphnia 1	48h 2,16 mg/l Daphnia magna

## 12.2. Persistence and degradability

### 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.

## 12.3. Bioaccumulative potential

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

Bioaccumulative potential Slightly bioaccumulative.

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

Log Pow 1,01

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

Bioaccumulative potential Bioaccumulation unlikely.

## 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. 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. Pressurized container: Do not pierce or burn, even after use. Remove to an authorized waste treatment plant.

European List of Waste (LoW) code : 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

## SECTION 14: Transport information

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

### 14.1. UN number

UN-No. (ADR) : 1950

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : AEROSOLS

Transport document description (ADR) : UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS

### 14.3. Transport hazard class(es)

Class (ADR) : 2

Subsidiary risk (IMDG) : 2.1

Subsidiary risk (IATA) : 2.1

Danger labels (ADR) : 2.1



### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Dangerous for the environment :



Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Classification code (ADR) : 5F

Special provisions (ADR) : 190, 327, 344, 625

Transport category (ADR) : 2

Tunnel restriction code (ADR) : D

Limited quantities (ADR) : 1I

#### 14.6.2. Transport by sea

EmS-No. (1) : F-D, S-U

#### 14.6.3. Air transport

Instruction "cargo" (ICAO) : 203

Instruction "passenger" (ICAO) : 203/Y203

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

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### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 61,35 %

##### 15.1.2. National regulations

Water hazard class (WGK) : 2 - hazard to waters

#### 15.2. Chemical safety assessment

No additional information available

### SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aerosol 1	Aerosol, Category 1
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
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1	Flammable gases, Category 1
Skin Corr. 1B	Skin corrosion/irritation, 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
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H220	Extremely flammable gas
H222	Extremely flammable aerosol
H229	Pressurised container: May burst if heated
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
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
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer
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

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H412  
EUH208

Harmful to aquatic life with long lasting effects  
Contains . May produce an allergic reaction

*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*