

# Safety Data Sheet

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

MSDS Version: E03.00 Date of issue: 18/06/2019 Blend Version: 2

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

# Product identifier

Product form : Mixture

Product name : Direct Injection Valve Cleaner (Aerosol)

Product code

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

### 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 - www.wynns.com

# **Emergency telephone number**

Emergency number : BIG: +32(0)14/58.45.45 (NL FR EN DE)

# SECTION 2: Hazards identification

### Classification of the substance or mixture

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

Aerosol 1 Skin Irrit. 2 H315 H318 Eye Dam. 1 STOT SE 3 H336 H411 Aquatic Chronic 2

Full text of 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)







GHS02

GHS05

GHS07

GHS09

Signal word (CLP)

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  $^{\circ}$ C/122  $^{\circ}$ 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
Hydrocarbons, C3-4-rich, petroleum distillate	(CAS-No.) 68512-91-4 (EC-No.) 270-990-9 (REACH-no) 01-2119485926-20	10 - 25	Flam. Gas 1, H220
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
(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 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	(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		concentration limits
Ammonium hydroxide	(CAS-No.) 1336-21-6 (EC-No.) 215-647-6 (EC Index-No.) 007-001-01-2	( 5 = <c )<="" <="" td=""><td>100) STOT SE 3, H335</td></c>	100) STOT SE 3, H335

Full text of H-statements: see section 16

# **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.

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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.

# 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.

# 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.

be disposed of in a safe way, and as per local registation

# 6.4. Reference to other sections

No additional information available

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# 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

Heat and ignition sources Information on mixed storage : Keep away from sources of ignition - No smoking. : Keep away from strong acids and strong oxidizers.

Storage area

ΕU

: 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

98 mg/m<sup>3</sup>

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Special rules on packaging Packaging materials

: Labelling according to. Meet the legal requirements.

: Pressurised small gas containers (aerosol cans).

# Specific end use(s)

See product bulletin for detailed information.

# SECTION 8: Exposure controls/personal protection

IOELV TWA (mg/m<sup>3</sup>)

#### 8.1. **Control parameters**

Hydrocarbons,	C10	aromatics	< 10%	nanhthalene
riyurucar bulis,	CIU.	ai villatics,	- T-70	Habilulaiene

Belaium	Limpit value (mag/mg3)	200 / 3
beigiuiii	Limit value (mg/m³)	200 mg/m <sup>3</sup>

# 2-butoxyethanol (111-76-2)

	. ( 3,  )	5,
EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m³)	246 mg/m <sup>3</sup>
EU	IOELV STEL (ppm)	50 ppm
EU	Notes	Skin
Belgium	Limit value (mg/m³)	98 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	20 ppm
Belgium	Short time value (mg/m³)	246 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	50 ppm
France	VLE (mg/m³)	246 mg/m <sup>3</sup>
France	VLE (ppm)	50 ppm
France	VME (mg/m³)	49 mg/m <sup>3</sup>
France	VME (ppm)	10 ppm
Netherlands	Grenswaarde TGG 8H (mg/m³)	100 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 8H (ppm)	20 ppm
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	246 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (ppm)	50 ppm
Hungary	AK-érték	98 mg/m <sup>3</sup>
Hungary	CK-érték	246 mg/m <sup>3</sup>

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

EU	IOELV TWA (mg/m³)	308 mg/m <sup>3</sup>
EU	IOELV TWA (ppm)	50 ppm
Belgium	Limit value (mg/m³)	308 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	50 ppm
Belgium	Remark (BE)	D
Hungary	AK-érték	308 mg/m <sup>3</sup>

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DNEL/DMEL (General population)

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according to Regulation (EC) No. 1	907/2006 (REACH) WIT	n its amendment Regulation (EU) 2015/830		
(2-methoxymethylethoxy)propanol (34590-94-8) Hungary CK-érték		308 mg/m³		
- ,			300 mg/m	
2-(2-butoxyethoxy)et	hanol (112-34-	5)		
EU	IOELV TWA (r	ng/m³)	67,5 mg/m³	
EU	IOELV TWA (p		10 ppm	
EU	IOELV STEL (	mg/m³)	101,2 mg/m³	
EU	IOELV STEL (	ppm)	15 ppm	
Belgium	Limit value (n	ng/m³)	67,5 mg/m³	
Belgium	Limit value (p	pm)	10 ppm	
Belgium	Short time va	lue (mg/m³)	101,2 mg/m³	
Belgium	Short time va	lue (ppm)	15 ppm	
France	VLE (mg/m <sup>3</sup> )		67,5 mg/m³	
France	VLE (ppm)		10 ppm	
France	VME (mg/m³)		101,2 mg/m³	
France	VME (ppm)		15 ppm	
Hungary	AK-érték		67,5 mg/m³	
Hungary	CK-érték		101,2 mg/m³	
Ammonium hydroxide	(1336-21-6)			
EU	IOELV TWA (r	mg/m³)	14 mg/m³	
EU	IOELV TWA (p	opm)	20 ppm	
EU	IOELV STEL (	mg/m³)	36 mg/m <sup>3</sup>	
EU	IOELV STEL (	ppm)	50 ppm	
Belgium	Limit value (mg/m³)		14 mg/m³	
Belgium	Limit value (ppm)		20 ppm	
Belgium	Short time va	lue (mg/m³)	36 mg/m³	
Belgium	Short time va	lue (ppm)	50 ppm	
Netherlands	Grenswaarde	TGG 8H (mg/m³)	14 mg/m³	
Netherlands	Grenswaarde	TGG 8H (ppm)	20 ppm	
Netherlands	Grenswaarde	TGG 15MIN (mg/m³)	36 mg/m <sup>3</sup>	
Netherlands Grenswaarde TGG 15MIN (ppm)		50 ppm		
Naphthalene (91-20-3	3)			
EU	IOELV TWA (r	ng/m³)	50 mg/m³	
EU	IOELV TWA (p	opm)	10 ppm	
Belgium	Limit value (n		53 mg/m³	
Belgium	Limit value (p	pm)	10 ppm	
Belgium	elgium Short time value (mg/m³)		80 mg/m <sup>3</sup>	
Belgium	Short time va	lue (ppm)	15 ppm	
Belgium	Remark (BE)		D	
Hungary AK-érték		50 mg/m³		
Hydrocarbons, C10, au DNEL/DMEL (Workers)	romatics, <1%	naphthalene		
Long-term - systemic eff	fects, dermal	12,5 mg/kg bodyweight/day		
Long-term - systemic eff		151 mg/m <sup>3</sup>		
DNEL/DMEL (General po				
Long-term - systemic eff	. ,	7,5 mg/kg bodyweight/day		
Long-term - systemic eff		32 mg/m <sup>3</sup>		
Long-term - systemic eff		7,5 mg/kg bodyweight/day		
<b>2-butoxyethanol (111</b> DNEL/DMEL (Workers)	-10-2)			
Acute - systemic effects,	dermal	89 mg/kg bodyweight/day		
Acute - systemic effects,	inhalation	1091 mg/m³		
Long-term - systemic eff	fects, dermal	125 mg/kg bodyweight/day		
Long-term - systemic eff	fects, inhalation	98 mg/m³		
Long-term - local effects	, inhalation	246 mg/m³		
DNEL/DMEL (Conoral no	nulation)			

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2-butoxyethanol (1	L11-76-2)
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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>

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

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

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

PNEC (Soil)

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/m³

DNEL/DMEL (General population)

Long-term - systemic effects,oral 6,25 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 21,73 mg/m³

Long-term - systemic effects, dermal 2,5 mg/kg bodyweight/day

PNEC (STP)

PNEC sewage treatment plant 0,83 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. 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 : 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 Appearance : Aerosol.

Colour : No data available
Odour : characteristic.
Odour threshold : No data available

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pH

Relative evaporation rate : No data available

(butylacetate=1)

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 : 3 - 4 bar

Relative vapour density at 20 °C : No data available Relative density : No data available Density @20°C : 850 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 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 toxicological effects

Acute toxicity : Not classified

# Hydrocarbons, C10, aromatics, <1% naphthalene

LD50 oral rat 6318 mg/kg bodyweight Crl: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 mg/kg bodyweight

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# 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 mg/kg bodyweight
ATE CLP (dermal) 1100 mg/kg bodyweight

 ATE CLP (vapours)
 2,2 mg/l/4h

 ATE CLP (dust,mist)
 2,2 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 mg/kg bodyweight
ATE CLP (dermal) 2764 mg/kg bodyweight

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

LD50 oral rat  $> 300 (\le 2000) \text{ mg/kg bodyweight}$ 

ATE CLP (oral) 2000 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 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 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.

# 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

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# (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 (≤ 100) mg/l @48h Daphnia magna

EC50 other aquatic organisms 1  $> 10 (\le 100)$  mg/l @72h Scenedesmus subspicatus

NOEC (chronic) > 1 mg/l

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

LC50 fish 1 96h 2,4 mg/l Oncorhynchus mykiss EC50 Daphnia 1 48h 3,2 mg/l Daphnia magna

# 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)  $> 0,01 (\le 0,1)$  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

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

Log Pow

# (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.

# 12.5. Results of PBT and vPvB assessment

No additional information available

# 12.6. Other adverse effects

No additional information available

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# 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) 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 hazard (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) : 1

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

# 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

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Contains no REACH Annex XIV substances

VOC content : 61,35 %

# 15.1.2. National regulations

Water hazard class (WGK) : 2 - Significantly hazardous to water

# 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,
1	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.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains isomeric mixture; 2,2'-[[(4or5-methyl-1H-benzotriazol-1-yl)-methyl]imino]bisethanol. May produce an

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allergic reaction.

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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.

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