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

Wynn's

MSDS Version: E03.01

Safety Data Sheet

Issue date: 22/07/2020

NV.

Blend Version: 2

: Direct Injection Valve Cleaner (Aerosol)

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

: W28879

: Mixture

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

### 1.2.1. Relevant identified uses

**Product identifier** 

Use of the substance/mixture

1.1.

Product form

Product name

Product code

: Internal cleaning of petrol fuel systems including fuel injectors.

### 1.2.2. Uses advised against

No additional information available

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

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** 1.4.

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

### SECTION 2: Hazards identification

### Classification of the substance or mixture 2.1.

### 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 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)

Cianal ward (CLD)	GHS02 GHS05 GHS07 GHS09	
Signal word (CLP)	: Danger	
Hazardous ingredients	<ul> <li>Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl); (Poly(oxy-1,2-ethanediyl),a-(2-propylheptyl)-w-hydroxy-); Hydrocarbons, C10, aromatics, &lt;1% naphthalene</li> </ul>	,
Hazard statements (CLP)	<ul> <li>H222 - Extremely flammable aerosol.</li> <li>H229 - Pressurised container: May burst if heated.</li> <li>H315 - Causes skin irritation.</li> <li>H318 - Causes serious eye damage.</li> <li>H336 - May cause drowsiness or dizziness.</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>	
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)	<ul> <li>P261 - Avoid breathing vapours, spray.</li> <li>P280 - Wear eye protection, protective gloves.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul>	
22/07/2020	EN (English) 1/	/12

Safety Data Sheet

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

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  $^{\circ}\text{C}/122~^{\circ}\text{F}.$ 

### 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
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.
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.

Safety Data Sheet

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

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 a	nd 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 measure	ıres
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 fro	m 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.
<b>6.2. Environmental precautions</b> Prevent entry to sewers and public waters.	

### 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.

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

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	e, including any incompatibilities
Storage conditions	<ul> <li>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.</li> </ul>
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**

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

Belgium	Limit value (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>	
2-butoxyethanol (1	11-76-2)	-	
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	
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/m <sup>3</sup> )	246 mg/m <sup>3</sup>	
Belgium	Short time value (ppm)	50 ppm	
France	VLE (mg/m <sup>3</sup> )	246 mg/m <sup>3</sup>	
France	VLE (ppm)	50 ppm	
France	VME (mg/m <sup>3</sup> )	49 mg/m <sup>3</sup>	
France	VME (ppm)	10 ppm	
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	100 mg/m³	
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	
Hungary	AK-érték	98 mg/m³	
Hungary	CK-érték	246 mg/m <sup>3</sup>	
(2-methoxymethylethoxy)propanol (34590-94-8)			
EU	IOELV TWA (mg/m <sup>3</sup> )	308 mg/m <sup>3</sup>	
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	
Hungary	AK-érték	308 mg/m <sup>3</sup>	
Hungary	CK-érték	308 mg/m <sup>3</sup>	
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	
22/07/2020	EN (English)		

Safety Data Sheet

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

2-(2-butoxyethoxy)etha	anol (112-34-5)		
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	
Hungary	AK-érték	67.5 mg/m <sup>3</sup>	
Hungary	CK-érték	101.2 mg/m <sup>3</sup>	
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/m³	
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/m³	
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	

### 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/m³
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>

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

DNEL/DMEL (Workers) Acute - systemic effects, dermal Acute - systemic effects, inhalation Long-term - systemic effects, dermal Long-term - systemic effects, inhalation Long-term - local effects, inhalation DNEL/DMEL (General population) Acute - systemic effects, dermal Acute - systemic effects, inhalation Acute - systemic effects, oral Long-term - systemic effects, oral Long-term - systemic effects, inhalation Long-term - systemic effects, dermal Long-term - local effects, inhalation PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (marine water)

89 mg/kg bodyweight/day 1091 mg/m<sup>3</sup> 125 mg/kg bodyweight/day 98 mg/m<sup>3</sup> 246 mg/m<sup>3</sup> 89 mg/kg bodyweight

426 mg/m<sup>3</sup> 26.7 mg/kg bodyweight 6.3 mg/kg bodyweight/day 59 mg/m<sup>3</sup> 75 mg/kg bodyweight/day 147 mg/m<sup>3</sup>

8.8 mg/l 0.88 mg/l 9.1 mg/l

34.6 mg/kg dwt 3.46 mg/kg dwt

# Direct Injection Valve Cleaner (Aerosol) Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2-butoxyethanol (111-76-2)	
PNEC (Soil)	
PNEC soil	2.33 mg/kg dwt
PNEC (STP)	5, 5
PNEC sewage treatment plant	463 mg/l
(2-methoxymethylethoxy)propanol (3	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/m³
Long-term - systemic effects, dermal	83 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	67.5 mg/m³
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 (meshwater)	0.44  mg/kg dwt
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	-
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)	5.
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
22/07/2020	EN (English)

Safety Data Sheet

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

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

	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)	
F	NEC sediment (freshwater)	0.195 mg/kg dwt
F	NEC sediment (marine water)	0.0195 mg/kg dwt
F	PNEC (Soil)	
F	PNEC soil	0.0348 mg/kg dwt
F	PNEC (STP)	
F	NEC sewage treatment plant	830 mg/l
ļ	Amides, C16-18 and C18-unsatd., N,N	-bis(hydroxyethyl) (68603-38-3)
Ľ	DNEL/DMEL (Workers)	
L	ong-term - systemic effects, dermal	4.16 mg/kg bodyweight/day
L	ong-term - systemic effects, inhalation	73.44 mg/m <sup>3</sup>
C	DNEL/DMEL (General population)	
L	ong-term - systemic effects,oral	6.25 mg/kg bodyweight/day
L	ong-term - systemic effects, inhalation	21.73 mg/m <sup>3</sup>
	ong-term - systemic effects, dermal	2.5 mg/kg bodyweight/day
	PNEC (STP)	
	NEC sewage treatment plant	0.83 mg/l
8.	2. Exposure controls	
Ap	ppropriate 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.

: Safety glasses. Gloves.

Personal protective equipment

Hand protection

Other information

- : 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.
- : 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
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	: 3 - 4 bar
Relative vapour density at 20 °C	: No data available

Safety Data Sheet

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

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 %

 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

Additional information

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

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: Not classified
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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	
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	

# Direct Injection Valve Cleaner (Aerosol) Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2-(2-butoxyethoxy)ethanol (112-34-	
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
	ylheptyl)-w-hydroxy- ) (160875-66-1)
LD50 oral rat	> 300 ( $\leq$ 2000) mg/kg bodyweight
ATE CLP (oral)	2000 mg/kg bodyweight
Amides, C16-18 and C18-unsatd., N,N	
LD50 oral rat	> 3000 mg/kg bodyweight
isomeric mixture;	/l-1H-benzotriazol-1-yl)-methyl]imino]bisethanol (88488-37-6 (80584-88-9
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 inform	ation
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
(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-	-
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
	ylheptyl)-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, C8-18 (even numbered) and	
LC50 fish 1	96h 2.4 mg/l Oncorhynchus mykiss
EC50 Daphnia 1	48h 3.2 mg/l Daphnia magna

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

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 (≤ 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	
12.2. Persistence and degradabilit	t <b>y</b>	
2-butoxyethanol (111-76-2)		
Persistence and degradability	Readily biodegradable.	
(Poly(oxy-1,2-ethanediyl),a-(2-propyl	hentyl)-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	1	
(Poly(oxy-1,2-ethanediyl),a-(2-propyl	heptyl)-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 ass	essment	
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. 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	

Safety Data Sheet

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

Danger labels (ADR)



### 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)	: 11
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)	

### 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 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 Tox. 4 (Inhalation:dust,mist) Acute Tox. 4 (Oral) Aerosol 1 Aquatic Acute 1

Acute toxicity (dermal), Category 4 Acute toxicity (inhalation:dust,mist) Category 4 Acute toxicity (oral), Category 4 Aerosol, Category 1 Hazardous to the aquatic environment — Acute Hazard, Category 1

# Direct Injection Valve Cleaner (Aerosol) Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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
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.
H400	Very toxic to aquatic life.
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 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.