

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 24/05/2024 Revision date: 16/10/2023 Supersedes version of: 07/02/2020 Version: 2.0

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

#### 1.1. Product identifier

Product name UFI Product code Vaporizer

: ZG-90 SILVER

: VX0X-F825-F00M-U6SN

: BDS002214AE

: Aerosol

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

#### 1.2.1. Relevant identified uses

Main use category Use of the substance/mixture : Professional use : Paints

## 1.2.2. Uses advised against

No additional information available

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

Supplier CRC Industries Europe UK Limited Wylds Road Castlefield Industrial Estate TA6 4DD Bridgwater Somerset United Kingdom T +44 1278 727200, F +44 1278 425644 hse.uk

#### 1.4. E

hse.uk@crcind.com, www.crcind.com					
1.4. Emerger	ncy telephone number				
Country	Organisation/Company	Address	Emergency number	Comment	
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Militaire Reine Astrid	Rue Bruyn 1 1120 Brussels	+32 70 245 245	Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard	

Belgium

**Only Representative** 

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## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

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

Aerosol, Category 1	H222;H229
	,
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity – Single exposure, Category 3,	H336
Narcosis	
Hazardous to the aquatic environment – Chronic Hazard,	H411
Category 2	
Full text of H- and EUH-statements: see section 16	

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

Pressurised container: May burst if heated. Extremely flammable aerosol. May cause drowsiness or dizziness. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.

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### 2.2. Label elements

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

Hazard pictograms (CLP)	
	GHS02 GHS07 GHS09
Signal word (CLP)	: Danger
Contains	<ul> <li>n-butyl acetate; acetone; propan-2-one; propanone; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics; 1-methoxy-2-propanol; monopropylene glycol methyl ether; Hydrocarbons, C9, aromatics</li> </ul>
Hazard statements (CLP)	<ul> <li>H222 - Extremely flammable aerosol.</li> <li>H229 - Pressurised container: May burst if heated.</li> <li>H319 - Causes serious eye irritation.</li> <li>H336 - May cause drowsiness or dizziness.</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements (CLP)	<ul> <li>P102 - Keep out of reach of children.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P211 - Do not spray on an open flame or other ignition source.</li> <li>P251 - Do not pierce or burn, even after use.</li> <li>P261 - Avoid breathing vapours/spray.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C.</li> <li>P501 - Dispose of contents/container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</li> </ul>
EUH-statements	<ul> <li>EUH066 - Repeated exposure may cause skin dryness or cracking.</li> <li>EUH208 - Contains 4-morpholinecarbaldehyde (4394-85-8). May produce an allergic reaction.</li> </ul>

#### 2.3. Other hazards

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

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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
dimethyl ether (Propellant gas (Aerosol)) substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit	CAS-No.: 115-10-6 EC-No.: 204-065-8 EC Index-No.: 603-019-00-8 REACH-no: 01-2119472128- 37	50 – 75	Flam. Gas 1, H220 Press. Gas (Liq.), H280
n-butyl acetate substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit	CAS-No.: 123-86-4 EC-No.: 204-658-1 EC Index-No.: 607-025-00-1 REACH-no: 01-2119485493- 29	10 – 25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
acetone; propan-2-one; propanone substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit	CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606-001-00-8 REACH-no: 01-2119471330- 49	10 – 25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
1-methoxy-2-propanol; monopropylene glycol methyl ether substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit	CAS-No.: 107-98-2 EC-No.: 203-539-1 EC Index-No.: 603-064-00-3 REACH-no: 01-2119457435- 35	1 – 5	Flam. Liq. 3, H226 STOT SE 3, H336
zinc oxide substance with national workplace exposure limit(s) (BE)	CAS-No.: 1314-13-2 EC-No.: 215-222-5 EC Index-No.: 030-013-00-7 REACH-no: 01-2119463881- 32	1 – 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	EC-No.: 919-857-5 REACH-no: 01-2119463258- 33	≤2,5	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066
Hydrocarbons, C9, aromatics	CAS-No.: 128601-23-0 EC-No.: 918-668-5 REACH-no: 01-2119455851- 35	≤2,5	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
4-morpholinecarbaldehyde	CAS-No.: 4394-85-8 EC-No.: 224-518-3 REACH-no: 01-2119987993- 12	< 1	Skin Sens. 1, H317

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case. Full text of H- and EUH-statements: see section 16

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

### 4.1. Description of first aid measures

First-aid measures general	: Call a poison center or a doctor if you feel unwell. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If signs/symptoms develop, get medical attention.
First-aid measures after skin contact	: Wash skin with plenty of water. Seek medical attention if irritation develops.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Seek medical attention if irritation develops.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects Symptoms/effects after skin contact	<ul><li>May cause drowsiness or dizziness.</li><li>Repeated exposure may cause skin dryness or cracking.</li></ul>

Symptoms/effects after eye contact : Eye irritation.

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

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

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SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Water spray. Dry powder. Foam. Carbon dioxide.</li><li>Do not use a heavy water stream.</li></ul>				
5.2. Special hazards arising from the substance or mixture					
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	<ul> <li>Extremely flammable aerosol.</li> <li>Pressurised container: May burst if heated.</li> <li>During fire, gases hazardous to health may be formed.</li> </ul>				
5.3. Advice for firefighters					
Firefighting instructions Protection during firefighting	<ul> <li>Move containers from fire area if it can be done without personal risk. Use standard firefighting procedures and consider the hazards of other involved materials.</li> <li>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul>				

SECTION 6: Accidental release measures						
6.1. Personal precautions, protective	equipment and	emergency proc	edures			
6.1.1. For non-emergency personnel						

Protective equipment	: Wear appropriate protective equipment and clothing during clean-up.
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Evacuate unnecessary personnel. Ventilate area.

## 6.2. Environmental precautions

Avoid release to the environment. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up		
For containment	: Collect spillage.	
Methods for cleaning up	: Mechanically recover the product. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Following product recovery, flush area with water. Take up small spills with dry chemical absorbent. Clean surface thoroughly to remove residual contamination.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

For disposal of contaminated materials refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage				
7.1. Precautions for safe handling				
Precautions for safe handling	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid prolonged exposure. Handle in accordance with good industria hygiene and safety procedures.			
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.			

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

Storage conditions	: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked
	up. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated
	place. Keep cool. Keep container closed when not in use.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.1.1 National occupational exposure and biological limit values

dimethyl ether (115-10-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Dimethylether	
IOEL TWA	1920 mg/m <sup>3</sup>	
	1000 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Belgium - Occupational Exposure Limits		
Local name	Oxyde de diméthyle # Dimethylether	
OEL TWA	1920 mg/m³	
	1000 ppm	
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021	
n-butyl acetate (123-86-4)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	n-Butyl acetate	
IOEL TWA	241 mg/m³	
	50 ppm	
IOEL STEL	723 mg/m³	
	150 ppm	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831	
Belgium - Occupational Exposure Limits		
Local name	Acétate de n-butyle # n-Butylacetaat	
OEL TWA	238 mg/m³	
	50 ppm	
OEL STEL	712 mg/m³	
	150 ppm	
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021	
acetone; propan-2-one; propanone (67-64-1)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Acetone	
IOEL TWA	1210 mg/m <sup>3</sup>	

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acetone; propan-2-one; propanone (67-64-1)		
	500 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Belgium - Occupational Exposure Limits		
Local name	Acétone # Aceton	
OEL TWA	594 mg/m³	
	246 ppm	
OEL STEL	1187 mg/m³	
	492 ppm	
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021	
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	1-Methoxypropanol-2	
IOEL TWA	375 mg/m³	
	100 ppm	
IOEL STEL	568 mg/m³	
	150 ppm	
Remark	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
Belgium - Occupational Exposure Limits		
Local name	1-Méthoxy-2-propanol # 1-Methoxy-2-propanol	
OEL TWA	184 mg/m³	
	50 ppm	
OEL STEL	369 mg/m³	
	100 ppm	
Remark	D: la mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air. # D: de vermelding "D" betekent dat de opname van het agens via de huid, de slijmvliezen of de ogen een belangrijk deel van de totale blootstelling vormt. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.	
Regulatory reference	Koninklijk besluit/Arrêté royal 11/05/2021	
zinc oxide (1314-13-2)		
Belgium - Occupational Exposure Limits		
Local name	Zinc (oxyde de) (fraction alvéolaire) # Zinkoxide (inadembare fractie)	
OEL TWA	2 mg/m³	
OEL STEL	10 mg/m³	
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023	

## 8.1.2. Recommended monitoring procedures

### No additional information available

#### 8.1.3. Air contaminants formed

#### No additional information available

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#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### 8.2.2. Personal protection equipment

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



#### 8.2.2.1. Eye and face protection

**Eye protection:** Use eye protection according to EN 166. Safety glasses with side shields.

#### 8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Wear suitable gloves tested to EN374. The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. Nitrile gloves are recommended. Butyl-rubber protective gloves.

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

#### Thermal hazard protection:

Not expected to present a significant hazard under anticipated conditions of normal use. Wear appropriate thermal protective clothing, when necessary.

#### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## **SECTION 9: Physical and chemical properties**

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

Physical state	: Liquid
Colour	: Grey.
Appearance	: DME propelled liquid.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Extremely flammable aerosol.
Explosive properties	: Pressurised container: May burst if heated.

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Lower explosion limit Upper explosion limit Flash point	: Not available : Not available : -18 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: > 200 °C
рН	: Not applicable
Viscosity, kinematic	: Not available
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not applicable
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 0,973 g/cm³ at 20 °C
Relative density	: 0,97 at 20 °C
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

9.2.1. Information with regard to physical hazard classes		
% of flammable ingredients	: 75 – 100 %	
9.2.2. Other safety characteristics		
VOC content Additional information	: 685 g/l (Cat.II B(e) VOC max 840 g/L) : For aerosols data for the product without propellant.	

SECTION	10. Stability	y and reactivity
SECTION	TU. Stability	y and reactivity

### 10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Carbon oxides (CO, CO2).

SECTION 11: Toxicological information		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	<ul> <li>Not classified (Based on available data, the classification criteria are not met)</li> <li>Not classified (Based on available data, the classification criteria are not met)</li> <li>Not classified (Based on available data, the classification criteria are not met)</li> </ul>	
dimethyl ether (115-10-6)		
LC50 Inhalation - Rat	308,5 mg/l/4h	
LC50 Inhalation - Rat [ppm]	164000 ppm	

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10760 mg/kg		
> 17600 mg/kg		
23,4 mg/l/4h		
1)		
5800 mg/kg bodyweight		
> 15688 mg/kg bodyweight		
76 mg/l/4h		
nes, cyclics, < 2% aromatics		
> 5000 mg/kg		
> 5000 mg/kg		
> 5000 mg/kg		
vcol methyl ether (107-98-2)		
4016 mg/kg		
> 2000 mg/kg		
> 25,8 mg/l		
7950 mg/kg		
> 2000 mg/kg bodyweight		
2500 mg/l		
Hydrocarbons, C9, aromatics (128601-23-0)		
3592 mg/kg		
> 3160 mg/kg bodyweight		
> 6,193 mg/l/4h		
4-morpholinecarbaldehyde (4394-85-8)		
> 7314 mg/kg bodyweight		
> 18400 mg/kg bodyweight		
> 5,319 mg/l/4h		
<ul> <li>Not classified (Based on available data, the classification criteria are not met) pH: Not applicable</li> </ul>		
F		
6,2		
10		
: Causes serious eye irritation. pH: Not applicable		
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4-morpholinecarbaldehyde (4394-85-8)		
pН	10	
Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure	<ul> <li>Not classified (Based on available data, the classification criteria are not met)</li> <li>Not classified (Based on available data, the classification criteria are not met)</li> <li>Not classified (Based on available data, the classification criteria are not met)</li> <li>Not classified (Based on available data, the classification criteria are not met)</li> <li>Mot classified (Based on available data, the classification criteria are not met)</li> <li>Mot classified (Based on available data, the classification criteria are not met)</li> <li>Mot classified (Based on available data, the classification criteria are not met)</li> </ul>	
n-butyl acetate (123-86-4)		
STOT-single exposure	May cause drowsiness or dizziness.	
acetone; propan-2-one; propanone (6	37-64-1)	
STOT-single exposure	May cause drowsiness or dizziness.	
Hydrocarbons, C9-C11, n-alkanes, iso	oalkanes, cyclics, < 2% aromatics	
STOT-single exposure	May cause drowsiness or dizziness.	
1-methoxy-2-propanol; monopropyle	ne glycol methyl ether (107-98-2)	
STOT-single exposure	May cause drowsiness or dizziness.	
Hydrocarbons, C9, aromatics (12860	1-23-0)	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.	
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)	
n-butyl acetate (123-86-4)		
LOAEL (oral, rat, 90 days)	500 mg/kg bodyweight	
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight	
1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)		
LOAEL (oral, rat, 90 days)	2757 mg/kg bodyweight	
NOAEL (oral, rat, 90 days)	919 mg/kg bodyweight	
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight	
Hydrocarbons, C9, aromatics (128601-23-0)		
NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight	
4-morpholinecarbaldehyde (4394-85-8)		
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight	
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)	
ZG-90 SILVER		
Vaporizer	Aerosol	
n-butyl acetate (123-86-4)		
Viscosity, kinematic	0,83 mm²/s	
Hydrocarbons, C9-C11, n-alkanes, iso	oalkanes, cyclics, < 2% aromatics	
Viscosity, kinematic	1,33 mm²/s	
1-methoxy-2-propanol; monopropyle	ne glycol methyl ether (107-98-2)	
Viscosity, kinematic	1,848 mm²/s	

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### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

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

## 11.2.2. Other information

No additional information available

## **SECTION 12: Ecological information**

12.1. Toxicity			
Hazardous to the aquatic environment, short–term : (acute)	Toxic to aquatic life with long lasting effects. Not classified (Based on available data, the classification criteria are not met) Toxic to aquatic life with long lasting effects.		
dimethyl ether (115-10-6)			
LC50 - Fish [1]	> 4,1 g/l		
EC50 - Crustacea [1]	> 4,4 g/l Daphnia magna (Water flea)		
EC50 96h - Algae [1]	154917 mg/l		
n-butyl acetate (123-86-4)			
LC50 - Fish [1]	18 mg/l		
EC50 - Crustacea [1]	44 mg/l		
EC50 72h - Algae [1]	674,7 mg/l		
LOEC (chronic)	47,6 mg/l		
NOEC (chronic)	23,2 mg/l		
NOEC chronic algae	200 mg/l		
acetone; propan-2-one; propanone (67-64-1)			
LC50 - Fish [1]	5540 mg/l		
EC50 - Other aquatic organisms [1]	12600 mg/l Daphnia magna (Water flea)		
LOEC (chronic)	> 79 mg/l		
NOEC (chronic)	≥ 79 mg/l		
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics			
LC50 - Fish [1]	> 1000 mg/l		
EC50 - Crustacea [1]	> 1000 mg/l		
EC50 - Other aquatic organisms [1]	> 1000 mg/l		
EC50 72h - Algae [1]	> 1000 mg/l		
1-methoxy-2-propanol; monopropylene glyco	l methyl ether (107-98-2)		
LC50 - Fish [1]	6812 mg/l		
LC50 - Fish [2]	20800 mg/l		
EC50 - Crustacea [1]	21100 – 25900 mg/l		

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1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)		
EC50 - Other aquatic organisms [1]	2954 mg/l	
ErC50 algae	> 1000 mg/l	
Hydrocarbons, C9, aromatics (128601-23-0)		
LC50 - Fish [1]	9,2 mg/l	
EC50 - Crustacea [1]	3,2 mg/l	
EC50 72h - Algae [1]	2,6 – 2,9 mg/l	
4-morpholinecarbaldehyde (4394-85-8)		
LC50 - Fish [1]	> 500 mg/l Leuciscus idus	
EC50 - Crustacea [1]	> 500 mg/l Daphnia magna	
EC50 72h - Algae [1]	23880 mg/l Desmodesmus subspicatus	
EC50 72h - Algae [2]	17440 mg/l Desmodesmus subspicatus	
12.2. Persistence and degradability		
ZG-90 SILVER		
Persistence and degradability	Not established. No data is available on the degradability of this product.	
12.3. Bioaccumulative potential		
ZG-90 SILVER		
Partition coefficient n-octanol/water (Log Kow)	Not applicable	
dimethyl ether (115-10-6)		
Partition coefficient n-octanol/water (Log Pow)	0,07	
n-butyl acetate (123-86-4)		
Partition coefficient n-octanol/water (Log Pow)	2,3	
acetone; propan-2-one; propanone (67-64-1)		
Partition coefficient n-octanol/water (Log Pow)	-0,24	
1-methoxy-2-propanol; monopropylene glyco	ol methyl ether (107-98-2)	
Bioconcentration factor (BCF REACH)	< 100	
Partition coefficient n-octanol/water (Log Pow)	0,37	
4-morpholinecarbaldehyde (4394-85-8)		
Partition coefficient n-octanol/water (Log Pow)	-1,32	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
ZG-90 SILVER		

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

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12.6. Endocrine disrupting properties	
Adverse effects on the environment caused by endocrine disrupting properties	: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.
12.7. Other adverse effects	
Additional information Global warming potential (GWP)	: No other effects known : 1 (Fluorinated greenhouse gases - (EC) No 2024/573)

SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Waste treatment methods European List of Waste (LoW, EC 2000/532)	<ul> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>According to the European Waste Catalogue (EWC), Waste Codes are not product specific, but application specific Waste codes should be assigned by the user based on the application for which the product was used.</li> </ul>

# SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	umber			
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shippin	g name			
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
Fransport document descr	iption			
UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 1950 Aerosols, flammable, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1 ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard o	class(es)			
2.1	2.1	2.1	2.1	2.1
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards			
Dangerous for the environment: YesDangerous for the environment: YesMarine pollutant: Yes		Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary informatio	on available			

# Overland transport

: 5F

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Special provisions (ADR)	: 190, 327, 344, 625
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P207, LP200
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
	: 2
Special provisions for carriage - Packages (ADR)	: V14
Special provisions for carriage - Loading, unloading	: CV9, CV12
and handling (ADR)	
	: S2
	: D
Transport by sea	
	: 63, 190, 277, 327, 344, 381, 959
	: SP277
	: E0
,	: P207, LP200
	: PP87, L2
	: F-D
	: S-U
<b>o o y ( y</b>	
<b>ö</b>	: SW1, SW22
Segregation (IMDG)	: SG69
Air transport	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
	: 203
	: 75kg
	: 203
	: 150kg
,	: A145, A167, A802
	: 10L
Inland waterway transport	
	: 5F
	: 190, 327, 344, 625
	: 1L
Limited quantities (ADN)	
	: PP, EX, A
	: VE01, VE04
Number of blue cones/lights (ADN)	: 1
Rail transport	
Classification code (RID)	: 5F
Special provisions (RID)	: 190, 327, 344, 625
	: 1L
	: E0
	: P207, LP200
	: PP87, RR6, L2
Mixed packing provisions (RID)	: MP9
Transport category (RID)	: 2
	: <u>–</u> : W14
Special provisions for carriage - Loading, unloading	
and handling (RID)	,
	: CE2
	: 23
x - /	

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

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

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

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

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

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

#### **REACH Candidate List (SVHC)**

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

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

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

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

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

#### Ozone Regulation (1005/2009)

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

#### VOC Directive (2004/42)

#### VOC content

: 685 g/l (Cat.II B(e) VOC max 840 g/L)

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

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors) ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

Name	CAS-No.	Combined Nomenclature code (CN)	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Acetone	67-64-1	2914 11 00	ex 3824 99 92

Please see https://home-affairs.ec.europa.eu/policies/internal-security/counter-terrorism-and-radicalisation/protection/legislation-chemicals-used-home-made-explosives\_en

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

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Name	CN designation	CAS-No.	CN code	Category	Threshold	Annex
Acetone		67-64-1	2914 11 00	Category 3		Annex I

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other information**

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	

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Abbreviations a	nd acronyms:
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

## Full text of H- and EUH-statements:

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
Asp. Tox. 1	Aspiration hazard, Category 1

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Full text of H- and EUH-statements:		
EUH066	Repeated exposure may cause skin dryness or cracking.	
EUH208	Contains 4-morpholinecarbaldehyde (4394-85-8). May produce an allergic reaction.	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Gas 1	Flammable gases, Category 1	
Flam. Liq. 2	Flammable liquids, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
H220	Extremely flammable gas.	
H222	Extremely flammable aerosol.	
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H229	Pressurised container: May burst if heated.	
H280	Contains gas under pressure; may explode if heated.	
H304	May be fatal if swallowed and enters airways.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
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.	
Press. Gas (Liq.)	Gases under pressure : Liquefied gas	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	

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