



Aqua RAL

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 05/08/2024 Revision date: 17/06/2024 Version: 1.0

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

1.1. Product identifier

Product name : Aqua RAL
UFI : UG50-P9YT-U004-GSDN
Product code : BDS002830AE
Vaporizer : Aerosol

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

1.2.1. Relevant identified uses

Main use category : Professional use
Use of the substance/mixture : 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 B.V.
Touwslagerstraat 1
9240 Zele
Belgium
T +32(0)52/45.60.11, F +32(0)52/45.00.34
hse@crcind.com, www.crcind.com

1.4. Emergency telephone number

Emergency number : +32(0)52/45.60.11
Office hours: 9-17h CET

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

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

Signal word (CLP) : Danger
Hazard statements (CLP) : H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read carefully and follow all instructions.
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.

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

P260 - Do not breathe mist/vapours.

P271 - Use only outdoors or in a well-ventilated area.

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

P501 - Dispose of contents/container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements

: EUH208 - Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9). May produce an allergic reaction.

2.3. Other hazards

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

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or 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 substance with national workplace exposure limit(s) (GB); 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	30 - <50	Flam. Gas 1, H220 Press. Gas (Liq.), H280
ethanol; ethyl alcohol substance with national workplace exposure limit(s) (GB)	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-43	10 - <20	Flam. Liq. 2, H225 Eye Irrit. 2, H319
2-dimethylaminoethanol; N,N-dimethylethanolamine substance with national workplace exposure limit(s) (GB)	CAS-No.: 108-01-0 EC-No.: 203-542-8 EC Index-No.: 603-047-00-0 REACH-no: 01-2119492298-24	< 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 (ATE=1182 mg/kg bodyweight) Acute Tox. 2 (Dermal), H310 (ATE=50 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
triethylamine substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 121-44-8 EC-No.: 204-469-4 EC Index-No.: 612-004-00-5 REACH-no: 01-2119475467-26	0,05 - <0,3	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 (ATE=730 mg/kg bodyweight) Acute Tox. 3 (Dermal), H311 (ATE=580 mg/kg bodyweight) Acute Tox. 3 (Inhalation), H331 (ATE=0.5 mg/l/4h) Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC-No.: 911-418-6 EC Index-No.: 613-167-00-5 REACH-no: 01-2120764691-48	< 0.001	Acute Tox. 2 (Inhalation), H330 (ATE=0.33 mg/l/4h) Acute Tox. 2 (Dermal), H310 (ATE=50 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=105 mg/kg bodyweight) Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100) EUH071

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
ethanol; ethyl alcohol	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5 REACH-no: 01-2119457610-43	(50 ≤ C < 100) Eye Irrit. 2, H319
2-dimethylaminoethanol; N,N-dimethylethanolamine	CAS-No.: 108-01-0 EC-No.: 203-542-8 EC Index-No.: 603-047-00-0 REACH-no: 01-2119492298-24	(5 ≤ C ≤ 100) STOT SE 3, H335
triethylamine	CAS-No.: 121-44-8 EC-No.: 204-469-4 EC Index-No.: 612-004-00-5 REACH-no: 01-2119475467-26	(1 ≤ C ≤ 100) STOT SE 3, H335
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	CAS-No.: 55965-84-9 EC-No.: 911-418-6 EC Index-No.: 613-167-00-5 REACH-no: 01-2120764691-48	(0.0015 ≤ C ≤ 100) Skin Sens. 1A, H317 (0.06 ≤ C < 0.6) Skin Irrit. 2, H315 (0.06 ≤ C < 0.6) Eye Irrit. 2, H319 (0.6 ≤ C ≤ 100) Skin Corr. 1C, H314 (0.6 ≤ C ≤ 100) Eye Dam. 1, H318

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	: 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 eyes with water as a precaution. 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 effects, both acute and delayed

No additional information available

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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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Firefighting instructions : 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.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear appropriate protective equipment and clothing during clean-up.
Emergency procedures : Ventilate spillage area.

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

Methods for cleaning up : 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 : Wear personal protective equipment. Ensure good ventilation of the work station. Avoid prolonged exposure. Handle in accordance with good industrial hygiene and safety procedures.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container closed when not in use.

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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 ³
	1000 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

United Kingdom - Occupational Exposure Limits

Local name	Dimethyl ether
WEL TWA (OEL TWA)	766 mg/m ³
	400 ppm
WEL STEL (OEL STEL)	958 mg/m ³
	500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

ethanol; ethyl alcohol (64-17-5)

United Kingdom - Occupational Exposure Limits

Local name	Ethanol
WEL TWA (OEL TWA)	1920 mg/m ³
	1000 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

triethylamine (121-44-8)

EU - Indicative Occupational Exposure Limit (IOEL)

Local name	Triethylamine
IOEL TWA	8.4 mg/m ³
	2 ppm
IOEL STEL	12.6 mg/m ³
	3 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC

United Kingdom - Occupational Exposure Limits

Local name	Triethylamine
WEL TWA (OEL TWA)	8 mg/m ³
	2 ppm
WEL STEL (OEL STEL)	17 mg/m ³

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triethylamine (121-44-8)	
	4 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
2-dimethylaminoethanol; N,N-dimethylethanolamine (108-01-0)	
United Kingdom - Occupational Exposure Limits	
Local name	2-Dimethylaminoethanol
WEL TWA (OEL TWA)	7.4 mg/m ³ 2 ppm
WEL STEL (OEL STEL)	22 mg/m ³ 6 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

dimethyl ether (115-10-6)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	1894 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	471 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.155 mg/l
PNEC aqua (marine water)	0.016 mg/l
PNEC aqua (intermittent, freshwater)	1549 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.681 mg/kg dwt
PNEC sediment (marine water)	0.069 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.045 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	160 mg/l
ethanol; ethyl alcohol (64-17-5)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	1900 mg/m ³
Long-term - systemic effects, dermal	343 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	950 mg/m ³

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ethanol; ethyl alcohol (64-17-5)	
DNEL/DMEL (General population)	
Acute - local effects, inhalation	950 mg/m ³
Long-term - systemic effects, oral	87 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	114 mg/m ³
Long-term - systemic effects, dermal	206 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.96 mg/l
PNEC aqua (marine water)	0.79 mg/l
PNEC aqua (intermittent, freshwater)	2.75 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3.6 mg/kg dwt
PNEC sediment (marine water)	2.9 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.63 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	0.72 g/kg food
PNEC (STP)	
PNEC sewage treatment plant	580 mg/l
triethylamine (121-44-8)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	12.6 mg/m ³
Acute - local effects, inhalation	12.6 mg/m ³
Long-term - systemic effects, dermal	12.1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	8.4 mg/m ³
Long-term - local effects, inhalation	8.4 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.11 mg/l
PNEC aqua (marine water)	0.011 mg/l
PNEC aqua (intermittent, freshwater)	0.08 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1.575 mg/kg dwt
PNEC sediment (marine water)	0.158 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.25 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l

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reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	0.04 mg/m ³
Long-term - local effects, inhalation	0.02 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, oral	0.11 mg/kg bodyweight/day
Acute - local effects, inhalation	0.04 mg/m ³
Long-term - systemic effects, oral	0.09 mg/kg bodyweight/day
Long-term - local effects, inhalation	0.02 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	3.39 µg/l
PNEC aqua (marine water)	3.39 µg/l
PNEC aqua (intermittent, freshwater)	3.39 µg/l
PNEC aqua (intermittent, marine water)	3.39 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.027 mg/kg dwt
PNEC sediment (marine water)	0.027 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.01 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.23 mg/l
2-dimethylaminoethanol; N,N-dimethylethanolamine (108-01-0)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	1.2 mg/kg bodyweight/day
Acute - systemic effects, inhalation	5.28 mg/m ³
Acute - local effects, dermal	100 µg/cm ²
Acute - local effects, inhalation	13.53 mg/m ³
Long-term - systemic effects, dermal	0.25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.76 mg/m ³
Long-term - local effects, inhalation	1.76 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.148 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.43755 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	0.0661 mg/l
PNEC aqua (marine water)	0.004 mg/l
PNEC aqua (intermittent, freshwater)	0.661 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.246 mg/kg dwt
PNEC sediment (marine water)	0.015 mg/kg dwt

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2-dimethylaminoethanol; N,N-dimethylethanolamine (108-01-0)

PNEC (Soil)

PNEC soil	0.01 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	10 mg/l
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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.

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Approved organic vapour respirator. Filter type: A

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	: Black.
Appearance	: DME propelled liquid.
Odour	: characteristic.
Odour threshold	: Not available

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Melting point	: No data available
Freezing point	: Not available
Boiling point	: -25 °C Propellant
Flammability	: Non flammable.
Lower explosion limit	: 3.3 vol %
Upper explosion limit	: 24.1 vol %
Flash point	: -41 °C
Auto-ignition temperature	: 240 °C
Decomposition temperature	: Not available
pH	: 9.5 – 10.5
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not applicable
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 0.805 g/cm ³ at 20 °C
Relative density	: 0.81 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 : 50 – 75 %

9.2.2. Other safety characteristics

VOC content : 513 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

Hardening time : Not applicable.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Avoid temperatures exceeding the flash point.

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) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

dimethyl ether (115-10-6)

LC50 Inhalation - Rat	308.5 mg/l/4h
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dimethyl ether (115-10-6)	
LC50 Inhalation - Rat [ppm]	164000 ppm
ethanol; ethyl alcohol (64-17-5)	
LD50 oral rat	15010 mg/kg bodyweight
LD50 dermal	15800 mg/kg bodyweight
LC50 Inhalation - Rat (Vapours)	> 116.9 mg/l/4h
triethylamine (121-44-8)	
LD50 oral rat	730 mg/kg bodyweight
LD50 dermal rabbit	580 mg/kg bodyweight
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
LD50 oral rat	105 mg/kg
LD50 dermal rat	> 1008 mg/kg bodyweight
LC50 Inhalation - Rat	0.33 mg/l/4h
2-dimethylaminoethanol; N,N-dimethylethanolamine (108-01-0)	
LD50 oral rat	1182 mg/kg
LD50 dermal rabbit	1220 mg/kg
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 9.5 – 10.5
triethylamine (121-44-8)	
pH	12.5
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
pH	3.43
2-dimethylaminoethanol; N,N-dimethylethanolamine (108-01-0)	
pH	11 – 12
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 9.5 – 10.5
triethylamine (121-44-8)	
pH	12.5
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
pH	3.43
2-dimethylaminoethanol; N,N-dimethylethanolamine (108-01-0)	
pH	11 – 12
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
triethylamine (121-44-8)	
STOT-single exposure	May cause respiratory irritation.

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2-dimethylaminoethanol; N,N-dimethylethanolamine (108-01-0)

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

ethanol; ethyl alcohol (64-17-5)

NOAEL (subchronic, oral, animal/female, 90 days) : > 9400 mg/kg bodyweight

2-dimethylaminoethanol; N,N-dimethylethanolamine (108-01-0)

NOAEL (oral, rat, 90 days) : 150 mg/kg bodyweight

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

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Vaporizer : Aerosol

triethylamine (121-44-8)

Viscosity, kinematic : 0.497 mm²/s

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

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

Not rapidly degradable

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

ethanol; ethyl alcohol (64-17-5)

LC50 - Fish [1] : 14.2 g/l

EC50 - Other aquatic organisms [1] : 5012 mg/l

ErC50 algae : 275 mg/l

NOEC (chronic) : 9.6 mg/l

triethylamine (121-44-8)

LC50 - Fish [1] : 24 mg/l Oryzias latipes

EC50 - Crustacea [1] : 200 mg/l Daphnia magna

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triethylamine (121-44-8)	
LOEC (chronic)	14 mg/l Ceriodaphnia dubia (7 d)
NOEC chronic crustacea	11 mg/l
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
LC50 - Fish [1]	0.19 mg/l Oncorhynchus mykiss
LC50 - Fish [2]	0.28 mg/l Lepomis macrochirus
EC50 - Crustacea [1]	0.16 mg/l Daphnia magna (Water flea)
NOEC (chronic)	0.1 mg/l Daphnia magna Duration (21 d)
NOEC chronic fish	0.098 mg/l Oncorhynchus mykiss (28 d)
2-dimethylaminoethanol; N,N-dimethylethanolamine (108-01-0)	
LC50 - Fish [1]	146.63 mg/l Leuciscus idus
EC50 - Crustacea [1]	98.37 mg/l Daphnia magna
EC50 72h - Algae [1]	66.08 mg/l Desmodesmus subspicatus
12.2. Persistence and degradability	
Aqua RAL	
Persistence and degradability	Not established. No data is available on the degradability of this product.
12.3. Bioaccumulative potential	
Aqua RAL	
Partition coefficient n-octanol/water (Log Kow)	Not applicable
dimethyl ether (115-10-6)	
Partition coefficient n-octanol/water (Log Pow)	0.07
ethanol; ethyl alcohol (64-17-5)	
Partition coefficient n-octanol/water (Log Pow)	-0.32
triethylamine (121-44-8)	
Partition coefficient n-octanol/water (Log Pow)	1.4
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
Partition coefficient n-octanol/water (Log Pow)	0.4
2-dimethylaminoethanol; N,N-dimethylethanolamine (108-01-0)	
Partition coefficient n-octanol/water (Log Pow)	-0.94
12.4. Mobility in soil	
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
Mobility in soil	12.08
12.5. Results of PBT and vPvB assessment	
Aqua RAL	
Results of PBT assessment	Contains no PBT and/or vPvB substances $\geq 0.1\%$ 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 : No other effects known
Global warming potential (GWP) : 0.50 (Fluorinated greenhouse gases - (EC) No 2024/573)






SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
European List of Waste (LoW, EC 2000/532) : 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.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name				
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
Transport document description				
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1	UN 1950 AEROSOLS, 2.1	UN 1950 AEROSOLS, 2.1
14.3. Transport hazard 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 hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR) : 5F
Special provisions (ADR) : 190, 327, 344, 625
Limited quantities (ADR) : 1I
Excepted quantities (ADR) : E0

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Packing instructions (ADR)	: P207, LP200
Special packing provisions (ADR)	: PP87, RR6, L2
Mixed packing provisions (ADR)	: MP9
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V14
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV9, CV12
Special provisions for carriage - Operation (ADR)	: S2
Tunnel restriction code (ADR)	: D

Transport by sea

Special provisions (IMDG)	: 63, 190, 277, 327, 344, 381, 959
Limited quantities (IMDG)	: SP277
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P207, LP200
Special packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D
EmS-No. (Spillage)	: S-U
Stowage category (IMDG)	: None
Stowage and handling (IMDG)	: SW1, SW22
Segregation (IMDG)	: SG69

Air transport

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

Inland waterway transport

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

Rail transport

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

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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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 : 513 g/l

Explosives Precursors Regulation (2019/1148)

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

Drug Precursors Regulation (273/2004)

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

15.1.2. National regulations

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
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

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Abbreviations and acronyms:

IATA	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:

Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
EUH071	Corrosive to the respiratory tract.
EUH208	Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9). May produce an allergic reaction.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2

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Full text of H- and EUH-statements:

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.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H311	Toxic 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.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1A	Skin sensitisation, category 1A
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

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