

# EMI 35

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
 Issue date: 24/10/2024 Revision date: 30/08/2024 Supersedes version of: 24/03/2023 Version: 1.2

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

#### 1.1. Product identifier

Product name : EMI 35  
 UFI : MU5X-98DS-W00T-JP0A  
 Product code : BDS002680BU

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

##### Relevant identified uses

Main use category : Professional use  
 Use of the substance/mixture : Conduction electric/thermal

#### 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](mailto:hse@crcind.com), [www.crcind.com](http://www.crcind.com)

#### 1.4. Emergency telephone number

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

Country/Area	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 fee)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Flammable liquids, Category 2 H225  
 Serious eye damage/eye irritation, Category 2 H319  
 Specific target organ toxicity – Single exposure, Category 3, Narcosis H336  
 Hazardous to the aquatic environment – Acute Hazard, Category 1 H400  
 Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411  
 Full text of H- and EUH-statements: see section 16

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

May cause drowsiness or dizziness. Causes serious eye irritation. Very toxic to aquatic life. 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)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

EUH-statements

- : Danger
- : propyl acetate; n-butyl acetate
- : H225 - Highly flammable liquid and vapour.  
H319 - Causes serious eye irritation.  
H336 - May cause drowsiness or dizziness.  
H410 - Very toxic to aquatic life with long lasting effects.
- : P102 - Keep out of reach of children.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 - Avoid breathing vapours/spray.  
P280 - Wear protective gloves/eye protection.  
P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO<sub>2</sub>), dry sand to extinguish.  
P501 - Dispose of contents/container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- : EUH066 - Repeated exposure may cause skin dryness or cracking.

### 2.3. Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Granulated copper substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit	CAS-No.: 7440-50-8 EC-No.: 231-159-6 EC Index-No.: 029-024-00-X REACH-no: 01-2119480154-42	40 – 60	Aquatic Acute 1, H400 Aquatic Chronic 2, H411
propyl acetate substance with national workplace exposure limit(s) (BE)	CAS-No.: 109-60-4 EC-No.: 203-686-1 EC Index-No.: 607-024-00-6 REACH-no: 01-2119484620-39	25 – 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066
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	5 – 10	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066
isopentyl acetate substance with national workplace exposure limit(s) (BE); substance with a Community workplace exposure limit	CAS-No.: 123-92-2 EC-No.: 204-662-3 EC Index-No.: 607-130-00-2 REACH-no: 01-2119548408-32	1 – 5	Flam. Liq. 3, H226 EUH066

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-(2-heptadec-8-enyl-2-imidazoline-1-yl)ethanol	CAS-No.: 95-38-5 EC-No.: 202-414-9 REACH-no: 01-2119777867-13	< 1	Acute Tox. 4 (Oral), H302 (ATE=1265 mg/kg bodyweight) Skin Corr. 1, H314 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

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.
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 effects, both acute and delayed

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Repeated exposure may cause skin dryness or cracking.
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.

### 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.
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#### 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

##### For non-emergency personnel

Protective equipment	: Wear appropriate protective equipment and clothing during clean-up.
Emergency procedures	: Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

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### 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 : 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 : 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 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 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

#### National occupational exposure and biological limit values

Granulated copper (7440-50-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Copper
IOEL TWA	0,01 mg/m <sup>3</sup> (respirable fraction)
Remark	(Year of adoption 2014)
Regulatory reference	SCOEL Recommendations
Belgium - Occupational Exposure Limits	
Local name	Cuivre (en Cu) # Koper (als Cu)
OEL TWA	0,2 mg/m <sup>3</sup> (fumées) # (rook) 1 mg/m <sup>3</sup> (poussières et brouillards de) # (stof en nevel)
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023

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<b>propyl acetate (109-60-4)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Acétate de n-propyle # Propylacetaat
OEL TWA	847 mg/m <sup>3</sup>
	200 ppm
OEL STEL	1055 mg/m <sup>3</sup>
	250 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
<b>n-butyl acetate (123-86-4)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	n-Butyl acetate
IOEL TWA	241 mg/m <sup>3</sup>
	50 ppm
IOEL STEL	723 mg/m <sup>3</sup>
	150 ppm
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Acétate de n-butyle # n-Butylacetaat
OEL TWA	238 mg/m <sup>3</sup>
	50 ppm
OEL STEL	712 mg/m <sup>3</sup>
	150 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
<b>isopentyl acetate (123-92-2)</b>	
<b>EU - Indicative Occupational Exposure Limit (IOEL)</b>	
Local name	Isopentylacetate
IOEL TWA	270 mg/m <sup>3</sup>
	50 ppm
IOEL STEL	540 mg/m <sup>3</sup>
	100 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
<b>Belgium - Occupational Exposure Limits</b>	
Local name	Acétates de pentyle tous isomères # Pentyl acetaat, alle isomeren
OEL TWA	270 mg/m <sup>3</sup>
	50 ppm
OEL STEL	540 mg/m <sup>3</sup>
	100 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023

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### DNEL and PNEC

<b>Granulated copper (7440-50-8)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - systemic effects, dermal	273 mg/kg bodyweight/day
Acute - local effects, inhalation	1 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	137 mg/kg bodyweight/day
Long-term - local effects, inhalation	1 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, dermal	273 mg/kg bodyweight/day
Acute - local effects, inhalation	1 mg/m <sup>3</sup>
Long-term - systemic effects, oral	0,041 mg/kg bodyweight/day
Long-term - systemic effects, dermal	137 mg/kg bodyweight/day
Long-term - local effects, inhalation	1 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	7,8 µg/l
PNEC aqua (marine water)	5,2 µg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	87 mg/kg dwt
PNEC sediment (marine water)	676 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	65 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	230 µg/l
<b>propyl acetate (109-60-4)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - local effects, inhalation	840 mg/m <sup>3</sup>
Long-term - local effects, inhalation	420 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, inhalation	298 mg/m <sup>3</sup>
Acute - local effects, inhalation	420 mg/m <sup>3</sup>
Long-term - systemic effects, inhalation	149 mg/m <sup>3</sup>
Long-term - local effects, inhalation	210 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,06 mg/l
PNEC aqua (marine water)	0,006 mg/l
PNEC aqua (intermittent, freshwater)	0,6 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	0,16 mg/kg dwt
PNEC sediment (marine water)	0,016 mg/kg dwt

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<b>propyl acetate (109-60-4)</b>	
<b>PNEC (Soil)</b>	
PNEC soil	0,0215 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	1 mg/l
<b>n-butyl acetate (123-86-4)</b>	
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,18 mg/l
PNEC aqua (marine water)	0,018 mg/l
PNEC aqua (intermittent, freshwater)	0,36 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	0,981 mg/kg dwt
PNEC sediment (marine water)	0,0981 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,0903 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	35,6 mg/l
<b>2-(2-heptadec-8-enyl-2-imidazoline-1-yl)ethanol (95-38-5)</b>	
<b>DNEL/DMEL (Workers)</b>	
Acute - systemic effects, dermal	2 mg/kg bodyweight/day
Acute - systemic effects, inhalation	14 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0,06 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,46 mg/m <sup>3</sup>
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,00003 mg/l
PNEC aqua (marine water)	0,000003 mg/l
PNEC aqua (intermittent, freshwater)	0,0003 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	0,376 mg/kg dwt
PNEC sediment (marine water)	0,0376 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,075 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	0,27 mg/l

## 8.2. Exposure controls

### 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.

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### Personal protection equipment

Personal protective equipment symbol(s):



### Eye and face protection

#### Eye protection:

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

### 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.

### Respiratory protection

#### Respiratory protection:

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

### 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.

### 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	: copper.
Appearance	: Paste.
Odour	: Solvent.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: 102 °C
Flammability	: Non flammable.
Lower explosion limit	: 1 vol %
Upper explosion limit	: 10 vol %
Flash point	: 23 °C (closed cup)
Auto-ignition temperature	: > 200 °C
Decomposition temperature	: Not available
pH	: Not applicable
Viscosity, kinematic	: 1800 – 3600 mm <sup>2</sup> /s at 40 °C
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not applicable
Vapour pressure	: 33 hPa at 20 °C
Vapour pressure at 50°C	: Not available
Density	: 1,65 g/cm <sup>3</sup> at 20 °C
Relative density	: 1,65 at 20 °C
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

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### 9.2. Other information

#### Other safety characteristics

VOC content : 36,4 %

## 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.

### 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, CO<sub>2</sub>).

## 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)

<b>Granulated copper (7440-50-8)</b>	
LD50 oral rat	> 2500 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	> 5,11 mg/l/4h
<b>propyl acetate (109-60-4)</b>	
LD50 oral rat	8700 mg/kg bodyweight
LD50 dermal rabbit	> 17800 mg/kg bodyweight
LC50 Inhalation - Rat	32 mg/l/4h
<b>n-butyl acetate (123-86-4)</b>	
LD50 oral rat	10760 mg/kg
LD50 dermal rabbit	> 17600 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	23,4 mg/l/4h
<b>isopentyl acetate (123-92-2)</b>	
LD50 oral	7400 mg/kg rabbit
LD50 dermal rabbit	> 5000 mg/kg bodyweight

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<b>2-(2-heptadec-8-enyl-2-imidazoline-1-yl)ethanol (95-38-5)</b>	
LD50 oral rat	1265 mg/kg
<b>Skin corrosion/irritation</b>	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable
<b>n-butyl acetate (123-86-4)</b>	
pH	6,2
<b>2-(2-heptadec-8-enyl-2-imidazoline-1-yl)ethanol (95-38-5)</b>	
pH	11,1
<b>Serious eye damage/irritation</b>	: Causes serious eye irritation. pH: Not applicable
<b>n-butyl acetate (123-86-4)</b>	
pH	6,2
<b>2-(2-heptadec-8-enyl-2-imidazoline-1-yl)ethanol (95-38-5)</b>	
pH	11,1
<b>Respiratory or skin sensitisation</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Germ cell mutagenicity</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Carcinogenicity</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>Reproductive toxicity</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>STOT-single exposure</b>	: May cause drowsiness or dizziness.
<b>propyl acetate (109-60-4)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>n-butyl acetate (123-86-4)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>STOT-repeated exposure</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>propyl acetate (109-60-4)</b>	
LOAEC (inhalation, rat, vapour, 90 days)	21409 mg/l air
<b>n-butyl acetate (123-86-4)</b>	
LOAEL (oral, rat, 90 days)	500 mg/kg bodyweight
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight
<b>isopentyl acetate (123-92-2)</b>	
NOAEL (subchronic, oral, animal/female, 90 days)	443,07 mg/kg bodyweight
<b>2-(2-heptadec-8-enyl-2-imidazoline-1-yl)ethanol (95-38-5)</b>	
NOAEL (oral, rat, 90 days)	20 mg/kg bodyweight
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
<b>Aspiration hazard</b>	: Not classified (Based on available data, the classification criteria are not met)
<b>EMI 35</b>	
Viscosity, kinematic	1800 – 3600 mm <sup>2</sup> /s at 40 °C
<b>n-butyl acetate (123-86-4)</b>	
Viscosity, kinematic	0,83 mm <sup>2</sup> /s
<b>isopentyl acetate (123-92-2)</b>	
Viscosity, kinematic	1,176 mm <sup>2</sup> /s

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### 11.2. Information on other hazards

#### 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 %

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.  
Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

#### Granulated copper (7440-50-8)

LC50 - Fish [1]	0,193 mg/l
EC50 - Crustacea [1]	0,1 – 1 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	0,1 – 1 mg/l
NOEC chronic fish	0,188 mg/l
NOEC chronic crustacea	0,1 – 1 mg/l

#### propyl acetate (109-60-4)

LC50 - Fish [1]	60 mg/l
EC50 - Crustacea [1]	91,5 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	672 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

#### isopentyl acetate (123-92-2)

LC50 - Fish [1]	22 – 46 mg/l
EC50 - Crustacea [1]	42 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	450 mg/l

#### 2-(2-heptadec-8-enyl-2-imidazoline-1-yl)ethanol (95-38-5)

LC50 - Fish [1]	0,3 mg/l
EC50 - Crustacea [1]	0,163 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	0,03 mg/l

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### 12.2. Persistence and degradability

#### EMI 35

Persistence and degradability	Not established. No data is available on the degradability of this product.
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### 12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water (Log Kow)	Not applicable
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#### Granulated copper (7440-50-8)

Partition coefficient n-octanol/water (Log Pow)	-0,57
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#### propyl acetate (109-60-4)

Partition coefficient n-octanol/water (Log Pow)	1,24
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#### n-butyl acetate (123-86-4)

Partition coefficient n-octanol/water (Log Pow)	2,3
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#### isopentyl acetate (123-92-2)

Partition coefficient n-octanol/water (Log Pow)	3,18
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#### 2-(2-heptadec-8-enyl-2-imidazoline-1-yl)ethanol (95-38-5)

Partition coefficient n-octanol/water (Log Pow)	7,51
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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### EMI 35

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 %.
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### 12.7. Other adverse effects

Additional information	: No other effects known
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## 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.

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### SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 1263	UN 1263	UN 1263	UN 1263	UN 1263
<b>14.2. UN proper shipping name</b>				
PAINT (copper)	PAINT (copper)	Paint (copper)	PAINT (copper)	PAINT (copper)
<b>Transport document description</b>				
UN 1263 PAINT (copper), 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1263 PAINT (copper), 3, II, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 1263 Paint (copper), 3, II, ENVIRONMENTALLY HAZARDOUS	UN 1263 PAINT (copper), 3, II, ENVIRONMENTALLY HAZARDOUS	UN 1263 PAINT (copper), 3, II, ENVIRONMENTALLY HAZARDOUS
<b>14.3. Transport hazard class(es)</b>				
3	3	3	3	3
<b>14.4. Packing group</b>				
II	II	II	II	II
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-E EmS-No. (Spillage): S-E	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: F1
Special provisions (ADR)	: 163, 367, 640C, 650
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP8, TP28
Tank code (ADR)	: L1.5BN
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	:  
Tunnel restriction code (ADR)	: D/E

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### Transport by sea

Special provisions (IMDG)	: 163, 367
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP8, TP28
Stowage category (IMDG)	: B
Properties and observations (IMDG)	: Miscibility with water depends upon the composition.

### Air transport

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3, A72, A192
ERG code (IATA)	: 3L

### Inland waterway transport

Classification code (ADN)	: F1
Special provisions (ADN)	: 163, 367, 640C, 650
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1

### Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 163, 367, 640C, 650
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP8, TP28
Tank codes for RID tanks (RID)	: L1.5BN
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

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

Not applicable

## SECTION 15: Regulatory information

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

#### 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)

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### 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)

### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

### VOC Directive (2004/42)

VOC content : 36,4 %

### 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)

## 15.2. 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
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

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Abbreviations and acronyms:	
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 disruptor

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
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
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
Skin Corr. 1	Skin corrosion/irritation, Category 1

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

STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

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