

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 8 Jul 2025

Version: 3

Page 1/17



## Copper Guard 500ml

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

#### 1.1. Product identifier

Trade name/designation:

Copper Guard 500ml

Article No.:

T112002

UFI:

SGSV-TEG8-ET0F-TRJ6

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

Use of the substance/mixture:

Aerosol coating

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

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstälzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

#### 1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

### SECTION 2: Hazards identification

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

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
aerosol dispensers and lighters (Aerosol 1)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	
STOT-single exposure (STOT SE 3)	H335: May cause respiratory irritation.	
STOT-single exposure (STOT SE 3)	H336: May cause drowsiness or dizziness.	
Hazardous to the aquatic environment (Aquatic Chronic 1)	H410: Very toxic to aquatic life with long lasting effects.	

#### 2.2. Label elements

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

Hazard pictograms:



**GHS02**  
Flame



**GHS07**  
Exclamation mark



**GHS09**  
Environment

Signal word: Danger

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 8 Jul 2025

Version: 3



Page 2/17

## Copper Guard 500ml

### Hazard components for labelling:

acetone; Hydrocarbons, C9, aromatics; n-butyl acetate

#### Hazard statements for physical hazards

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.

#### Hazard statements for health hazards

H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

#### Hazard statements for environmental hazards

H410	Very toxic to aquatic life with long lasting effects.
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#### Supplemental hazard information

EUH066	Repeated exposure may cause skin dryness or cracking.
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#### Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing and eye protection/face protection.

#### Precautionary statements Response

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Precautionary statements Storage

P403	Store in a well-ventilated place.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

#### Precautionary statements Disposal

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
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### Additional information:

Formation of explosive mixtures possible without adequate ventilation.

### 2.3. Other hazards

#### Other adverse effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Description:

Active ingredient mixture with propellant gas

#### Additional information:

Aerosols and containers fitted with a solid nebuliser containing substances or mixtures classified as hazardous by aspiration must not be labelled for this hazard.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 8 Jul 2025

Version: 3



Page 3/17

## Copper Guard 500ml

### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 67-64-1 EC No.: 200-662-2 Index No.: 606-001-00-8 REACH No.: 01-2119471330-49	<b>acetone</b> Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger EUH066 <b>Acute Toxicity Estimate</b> ATE (oral) 5,800 mg/kg ATE (dermal) 20,000 mg/kg ATE (inhalation, gases) 76 ppmV ATE (inhalation, vapour) 5,540 mg/L ATE (inhalation, dust/mist) 76 mg/L	25 - < 50 Vol-%
CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH No.: 01-2119474691-32	<b>Butane (with &lt; 0,1 % butadiene (203-450-8))</b> Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger	10 - < 25 Vol-%
CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5 REACH No.: 01-2119486944-21	<b>propane</b> Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger <b>Acute Toxicity Estimate</b> ATE (oral) 5,840 mg/kg ATE (dermal) 13,900 mg/kg ATE (inhalation, gases) > 25 ppmV ATE (inhalation, vapour) ≥ 50 mg/L	10 - < 25 Vol-%
CAS No.: 128601-23-0 EC No.: 918-668-5 REACH No.: 01-2119455851-35	<b>Hydrocarbons, C9, aromatics</b> Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H335, H336) Danger <b>Acute Toxicity Estimate</b> ATE (oral) 3,492 mg/kg ATE (dermal) > 3,160 mg/kg ATE (inhalation, gases) > 6,193 ppmV	10 - < 25 Vol-%
CAS No.: 123-86-4 EC No.: 204-658-1 REACH No.: 01-2119485493-29	<b>n-butyl acetate</b> Substance with a community workplace exposure limit. <b>Acute Toxicity Estimate</b> ATE (oral) 10,800 mg/kg ATE (dermal) > 17,600 mg/kg ATE (inhalation, gases) > 21 ppmV ATE (inhalation, vapour) > 21 mg/L	2.5 - < 10 Vol-%
CAS No.: 7440-50-8 EC No.: 231-159-6 REACH No.: 01-2119480154-42	<b>copper</b> Acute Tox. 3 (H331), Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Irrit. 2 (H319) Danger M-factor (acute): 1 M-factor (chronic): 10 <b>Acute Toxicity Estimate</b> ATE (oral) > 2,000 mg/kg ATE (dermal) 300 - 2,500 mg/kg ATE (inhalation, gases) 5.11 ppmV ATE (inhalation, dust/mist) 5.11 mg/L	2.5 - < 10 Vol-%
CAS No.: 75-28-5 EC No.: 200-857-2 REACH No.: 01-2119485395-27	<b>Isobutane (with &lt; 0.1 % butadiene (203-450-8))</b> Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger	2.5 - < 10 Vol-%

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Following inhalation:

Fresh air supply, consult a doctor in case of complaints.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

**Revision date:** 7 Jul 2025

**Print date:** 8 Jul 2025

**Version:** 3

Page 4/17



## Copper Guard 500ml

### In case of skin contact:

In general, the product is not irritating to skin.

### After eye contact:

Rinse opened eye for several minutes under running water. Consult a doctor if symptoms persist

### Following ingestion:

Do not induce vomiting, seek medical help immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

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

No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Water mist, Extinguishing powder, Carbon dioxide, alcohol resistant foam

#### Unsuitable extinguishing media:

Water in full jet

### 5.2. Special hazards arising from the substance or mixture

No further relevant information available.

### 5.3. Advice for firefighters

Special protective equipment: Put on breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Wear protective equipment. Keep unprotected persons away.

#### 6.1.2. For emergency responders

No data available

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of spillage into water or sewage system, inform the competent authorities.

### 6.3. Methods and material for containment and cleaning up

#### Other information:

Provide adequate ventilation. Do not wash away with water or aqueous detergents.

### 6.4. Reference to other sections

See section 7 for further information on safe handling.

For further information on personal protective equipment: see section 8.

For further information on disposal: see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

##### Advices on safe handling:

Ensure good ventilation/extraction at the workplace.

##### Fire prevent measures:

Do not spray on naked flames or any incandescent material. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Container is under pressure. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps). Do not open by force or burn even after use.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 8 Jul 2025

Version: 3

Page 5/17



## Copper Guard 500ml

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

#### Requirements for storage rooms and vessels:

Store in a cool place. The official regulations for the storage of pressurised gas packages must be observed.

#### Hints on storage assembly:

The official regulations for the storage of pressurised gas packages must be observed.

**Storage class (TRGS 510, Germany):** 2B – Aerosol dispensers and lighters

#### Further information on storage conditions:

Store in a cool, dry place in well-sealed containers. Protect from heat and direct sunlight.

### 7.3. Specific end use(s)

#### Recommendation:

No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### \* 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	② 2,000 ppm (4,800 mg/m <sup>3</sup> ) ⑤ (max. 4x15 min./Schicht)
IOELV (EU)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,210 mg/m <sup>3</sup> )
MAK (AT)	<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	① 500 ppm (1,200 mg/m <sup>3</sup> )
MAK (AT)	<b>Butane (with &lt; 0,1 % butadiene (203-450-8))</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m <sup>3</sup> )
MAK (AT)	<b>Butane (with &lt; 0,1 % butadiene (203-450-8))</b> CAS No.: 106-97-8 EC No.: 203-448-7	② 1,600 ppm (3,800 mg/m <sup>3</sup> ) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	② 2,000 ppm (3,600 mg/m <sup>3</sup> ) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m <sup>3</sup> )
MAK (AT) from 10 Apr 2021	<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	① 50 ppm (241 mg/m <sup>3</sup> ) ② 100 ppm (480 mg/m <sup>3</sup> )
IOELV (EU) from 20 Nov 2019	<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	① 50 ppm (241 mg/m <sup>3</sup> ) ② 150 ppm (723 mg/m <sup>3</sup> )
MAK (AT)	<b>copper</b> CAS No.: 7440-50-8 EC No.: 231-159-6	① 1 mg/m <sup>3</sup> ② 4 mg/m <sup>3</sup> ⑤ (einatembare Fraktion, max. 4x15 min./Schicht)
MAK (AT)	<b>copper</b> CAS No.: 7440-50-8 EC No.: 231-159-6	① 0.1 mg/m <sup>3</sup> ② 0.4 mg/m <sup>3</sup> ⑤ (alveolengängige Fraktion max. 4x15 min./Schicht)

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 8 Jul 2025

Version: 3



Page 6/17

## Copper Guard 500ml

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	<b>Isobutane (with &lt; 0.1 % butadiene (203-450-8))</b> CAS No.: 75-28-5 EC No.: 200-857-2	② 1,600 ppm (3,800 mg/m <sup>3</sup> ) ⑤ (max. 3x60 min./SchichtMomentanwert)
MAK (AT)	<b>Isobutane (with &lt; 0.1 % butadiene (203-450-8))</b> CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m <sup>3</sup> )

### 8.1.2. Biological limit values

No data available

### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	1,210 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	200 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	2,420 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, local effects
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	186 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	62 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	62 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>Hydrocarbons, C9, aromatics</b> CAS No.: 128601-23-0 EC No.: 918-668-5	100 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>Hydrocarbons, C9, aromatics</b> CAS No.: 128601-23-0 EC No.: 918-668-5	32 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>Hydrocarbons, C9, aromatics</b> CAS No.: 128601-23-0 EC No.: 918-668-5	25 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>Hydrocarbons, C9, aromatics</b> CAS No.: 128601-23-0 EC No.: 918-668-5	11 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>Hydrocarbons, C9, aromatics</b> CAS No.: 128601-23-0 EC No.: 918-668-5	11 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	300 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	35.7 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 8 Jul 2025

Version: 3



Page 7/17

## Copper Guard 500ml

Substance name	DNEL value	① DNEL type ② Exposure route
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	600 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	859.7 mg/m <sup>3</sup>	① DNEL Consumer ② Acute - inhalation, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	300 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	35.7 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, local effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	600 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, local effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	300 mg/m <sup>3</sup>	① DNEL Consumer ② Acute - inhalation, local effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	11 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	5 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	11 mg/kg bw/ day	① DNEL worker ② Acute - dermal, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	5 mg/kg bw/ day	① DNEL Consumer ② Acute - dermal, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	2 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	2 mg/kg bw/ day	① DNEL Consumer ② Acute - oral, systemic effects
<b>copper</b> CAS No.: 7440-50-8 EC No.: 231-159-6	20 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, systemic effects
<b>copper</b> CAS No.: 7440-50-8 EC No.: 231-159-6	20 mg/m <sup>3</sup>	① DNEL Consumer ② Acute - inhalation, systemic effects
<b>copper</b> CAS No.: 7440-50-8 EC No.: 231-159-6	1 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, local effects
<b>copper</b> CAS No.: 7440-50-8 EC No.: 231-159-6	1 mg/m <sup>3</sup>	① DNEL Consumer ② Acute - inhalation, local effects
<b>copper</b> CAS No.: 7440-50-8 EC No.: 231-159-6	137 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
<b>copper</b> CAS No.: 7440-50-8 EC No.: 231-159-6	137 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>copper</b> CAS No.: 7440-50-8 EC No.: 231-159-6	273 mg/kg bw/ day	① DNEL worker ② Acute - dermal, systemic effects



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 8 Jul 2025

Version: 3



Page 8/17

## Copper Guard 500ml

Substance name	DNEL value	① DNEL type ② Exposure route
<b>copper</b> CAS No.: 7440-50-8 EC No.: 231-159-6	273 mg/kg bw/day	① DNEL Consumer ② Acute - dermal, systemic effects
<b>copper</b> CAS No.: 7440-50-8 EC No.: 231-159-6	0.041 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	10.6 mg/L	① PNEC aquatic, freshwater
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	1.06 mg/L	① PNEC aquatic, marine water
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	100 mg/L	① PNEC sewage treatment plant
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	30.4 mg/kg	① PNEC sediment, freshwater
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	3.04 mg/kg	① PNEC sediment, marine water
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	29.5 mg/kg	① PNEC soil
<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	21 mg/L	① PNEC aquatic, intermittent release
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	0.18 mg/L	① PNEC aquatic, freshwater
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	0.015 mg/L	① PNEC aquatic, marine water
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	35.6 mg/L	① PNEC sewage treatment plant
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	0.981 mg/L	① PNEC sediment, freshwater
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	0.0981 mg/L	① PNEC sediment, marine water
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	0.0903 mg/kg	① PNEC soil
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	0.36	① PNEC aquatic, intermittent release

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No further details. See section 7.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

**Revision date:** 7 Jul 2025

**Print date:** 8 Jul 2025

**Version:** 3

Page 9/17



## Copper Guard 500ml

### 8.2.2. Personal protection equipment



#### Eye/face protection:

Safety goggles (EN-166)

#### Skin protection:

Hand protection:

Gloves / solvent resistant

Breakthrough times and swelling properties of the material must be taken into consideration.

Glove material:

The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use. NBR (Nitrile rubber)

Recommended material thickness:  $\geq 0,5$  mm

Permeation time (maximum wear duration):

For continuous contact we recommend gloves with a breakthrough time of at least 240 minutes, with the preference for a breakthrough time greater than 480 minutes. For short term or splash protection we recommend the same. We are aware that suitable gloves offering this protection are not available. In this case, a shorter breakthrough time is permissible, provided the procedures for maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance the gloves give against a chemical substance, as this depends on the exact composition of the material of the gloves. The exact breakthrough time should be checked with the glove manufacturer and adhered to.

Body protection:

Use protective suit. (EN-13034/6)

Antistatic, chemical and oil resistant clothing and safety shoes are recommended. (EN1149 EN340&EN ISO 13688 EN13034-6).

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Filter A2/P2

#### Other protection measures:

General protective and hygienic measures:

Keep away from food, drink and animal feed.

Remove contaminated, saturated clothing immediately.

Wash hands before breaks and after work.

Do not inhale gases/vapours/aerosols.

Avoid contact with eyes and skin.

General ventilation.

### 8.2.3. Environmental exposure controls

Use a suitable container to prevent environmental pollution.

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Form:** Aerosol

**Colour:** According to product designation

**Odour:** characteristic

**flammability:** No data available

#### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	<i>not applicable</i>		② Mixture is not polar/aprotic.
Initial boiling point and boiling range	-44.5 °C		
Flash point	-97 °C		
Evaporation rate	<i>No data available</i>		

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 8 Jul 2025

Version: 3

Page 10/17



## Copper Guard 500ml

Parameter	Value	at °C	① Method ② Remark
Auto-ignition temperature	365 °C		② Butane (with < 0,1 % butadiene (203-450-8)) (106-97-8)
Upper/lower flammability or explosive limits	0.7 - 13 Vol-%		
Vapour pressure	8,300 hPa	20 °C	② propane (74-98-6)
Density	1.084 g/cm³	20 °C	
Water solubility	Immiscible		

### \* 9.2. Other information

The product is not self-igniting. The product is not explosive, but the formation of explosive vapour/air mixtures is possible. formation of explosive vapour/air mixtures is possible.

Organic solvents: 90,7%

Solid content: 9,6%

#### 9.2.1. Information with regard to physical hazard classes

##### Explosives:

Not applicable

##### Flammable gases:

Not applicable

##### Aerosols:

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

##### Oxidizing gases:

Not applicable

##### Gases under pressure:

Not applicable

##### Flammable liquids:

Not applicable

##### Flammable solids:

Not applicable

##### Self-reactive substances and mixtures:

Not applicable

##### Pyrophoric liquids:

Not applicable

##### Pyrophoric solids:

Not applicable

##### Self-heating substances and mixtures:

Not applicable

##### Substances or mixtures which, in contact with water, emit flammable gases:

Not applicable

##### Oxidizing liquids:

Not applicable

##### Oxidizing solids:

Not applicable

##### Organic peroxides:

Not applicable

##### Corrosive to metals:

Not applicable

##### Desensitised explosives:

Not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No further relevant information available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 8 Jul 2025

Version: 3

Page 11/17



## Copper Guard 500ml

### 10.2. Chemical stability

Thermal decomposition / Conditions to avoid: No decomposition when used as directed.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known.

### 10.4. Conditions to avoid

No further relevant information available.

### 10.5. Incompatible materials

No further relevant information available.

### 10.6. Hazardous decomposition products

No dangerous decomposition products known.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>acetone</b> CAS No.: 67-64-1 EC No.: 200-662-2	
<b>ATE (oral):</b> 5,800 mg/kg	
<b>ATE (dermal):</b> 20,000 mg/kg	
<b>ATE (inhalation, dust/mist):</b> 76 mg/L	
<b>LD<sub>50</sub> oral:</b> 5,800 mg/kg (Rat)	
<b>LD<sub>50</sub> dermal:</b> >15,800 mg/kg (Rabbit)	
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 76 ppmV 4 h (Rat)	
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 5,540 mg/L 4 d (Oncorhynchus mykiss (Rainbow trout))	
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 76 mg/L 4 h (Rat)	
<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	
<b>LD<sub>50</sub> oral:</b> 5,840 mg/kg (Rat)	
<b>LD<sub>50</sub> dermal:</b> 13,900 mg/kg (Rabbit)	
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> >25 ppmV 4 h (Rat)	
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> ≥50 mg/L 4 h (Rat)	
<b>Hydrocarbons, C9, aromatics</b> CAS No.: 128601-23-0 EC No.: 918-668-5	
<b>LD<sub>50</sub> oral:</b> 3,492 mg/kg (Rat)	
<b>LD<sub>50</sub> dermal:</b> >3,160 mg/kg (Rabbit)	
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> >6,193 ppmV 4 h (Rat)	
<b>n-butyl acetate</b> CAS No.: 123-86-4 EC No.: 204-658-1	
<b>LD<sub>50</sub> oral:</b> 10,800 mg/kg (Rat) OECD 401	
<b>LD<sub>50</sub> dermal:</b> >17,600 mg/kg (Rabbit)	
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> >21 ppmV 4 h (Rat)	
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >21 mg/L 4 h (Rat)	
<b>copper</b> CAS No.: 7440-50-8 EC No.: 231-159-6	
<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat)	
<b>LD<sub>50</sub> dermal:</b> 300 - 2,500 mg/kg (Rat)	
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 5.11 ppmV 4 h (Rat)	
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 5.11 mg/L (Rat)	

#### Acute oral toxicity:

Based on available data, the classification criteria are not met.

#### Acute dermal toxicity:

Based on available data, the classification criteria are not met.

#### Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation:

Based on available data, the classification criteria are not met.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 8 Jul 2025

Version: 3

Page 12/17



## Copper Guard 500ml

### Serious eye damage/irritation:

Causes serious eye irritation.

### Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met.

### Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

### Carcinogenicity:

Based on available data, the classification criteria are not met.

### Reproductive toxicity:

Based on available data, the classification criteria are not met.

### STOT-single exposure:

May cause respiratory irritation. May cause drowsiness or dizziness.

### STOT-repeated exposure:

Based on available data, the classification criteria are not met.

### Aspiration hazard:

Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### Endocrine disrupting properties:

None of the ingredients are included.

## SECTION 12: Ecological information

### \* 12.1. Toxicity

<b>acetone</b>	CAS No.: 67-64-1	EC No.: 200-662-2
LC <sub>50</sub> : 8,300 mg/L 4 d (fish)		
LC <sub>50</sub> : 8,450 mg/L 2 d (crustaceans, water flea)		
LC <sub>50</sub> : 8,300 mg/L 4 d (fish)		
EC <sub>50</sub> : 7,200 mg/L 4 d (Algae/water plant)		
EC <sub>50</sub> : 7,200 mg/L 4 d (Alge)		
EC <sub>50</sub> : 8,800 mg/L (Daphnia magna)		
NOEC: 2,212 mg/L (crustaceans, Daphnia magna)		
<b>propane</b>	CAS No.: 74-98-6	EC No.: 200-827-9
LC <sub>50</sub> : 9,640 mg/L 4 d (fish, Pimephales promelas)		
LC <sub>50</sub> : 0.41 mg/L 4 d (fish, Oncorhynchus mykiss)		
LC <sub>50</sub> : 49.9 mg/L 4 d (fish)		
EC <sub>50</sub> : >100 mg/L (Algae/water plant, Bacteria)		
EC <sub>50</sub> : 0.17 mg/L 3 d (Algae/water plant, Selenastrum capricornutum)		
EC <sub>50</sub> : 69.43 mg/L 2 d (crustaceans, Daphnia) Calculation with the ECOSAR programme v1.00.		
NOEC: 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)		
ErC <sub>50</sub> : 19.37 mg/L 4 d (Algae/water plant, Algae) Calculation with the ECOSAR programme v1.00.		
LOEC: 1,000 mg/L (Algae/water plant, Algae)		
LOEC: 1,000 mg/L (Algae/water plant, Alge)		
IC <sub>50</sub> : 11.3 mg/L 3 d (Algae/water plant)		
<b>Hydrocarbons, C9, aromatics</b>	CAS No.: 128601-23-0	EC No.: 918-668-5
EC <sub>50</sub> : 3.2 mg/L 2 d (crustaceans, Daphnia magna)		
EC <sub>50</sub> : 2.75 mg/L 3 d (Algae/water plant, Pseudokirchneriella Subcapitata)		
EC <sub>50</sub> : 9.2 mg/L 4 d (fish)		

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 8 Jul 2025

Version: 3

Page 13/17



## Copper Guard 500ml

**n-butyl acetate** CAS No.: 123-86-4 EC No.: 204-658-1

**LC<sub>50</sub>**: 18 mg/L 4 d (fish, Pimephales promelas)

**EC<sub>50</sub>**: 44 mg/L 2 d (crustaceans, Daphnia magna)

**EC<sub>50</sub>**: 675 mg/L 3 d (Algae/water plant, Scenedesmus subspicatus)

**NOEC**: 23.2 mg/L (crustaceans, Daphnia magna)

**LC<sub>50</sub>**: 18 mg/L 4 d (fish)

**EC<sub>50</sub>**: 44 mg/L 2 d (Daphnia magna)

**copper** CAS No.: 7440-50-8 EC No.: 231-159-6

**LC<sub>50</sub>**: 0.000072 mg/L 2 d (crustaceans, Krustazeen)

**LC<sub>50</sub>**: 0.000072 mg/L 2 d (crustaceans, Krustazeen, Adultus)

**LC<sub>50</sub>**: 0.000072 mg/L 2 d (crustaceans, Amphipoda)

**EC<sub>50</sub>**: 0.0021 mg/L 2 d (crustaceans, Daphnia)

**NOEC**: 0.0008 mg/L (fish, Oreochromis niloticus)

**NOEC**: 0.0008 mg/L (crustaceans, Krustazeen)

**IC<sub>50</sub>**: 0.016 mg/L 3 d (Algae/water plant, Chlorella pyrenoidosa)

**IC<sub>50</sub>**: 0.016 mg/L 3 d (Algae/water plant, Chlorella pyrenoidosa)

### Aquatic toxicity:

No further relevant information available.

### Assessment/classification:

No further relevant information available.

## 12.2. Persistence and degradability

**acetone** CAS No.: 67-64-1 EC No.: 200-662-2

**Biodegradation**: Yes, rapidly

**propane** CAS No.: 74-98-6 EC No.: 200-827-9

**Biodegradation**: Yes, rapidly

**n-butyl acetate** CAS No.: 123-86-4 EC No.: 204-658-1

**Biodegradation**: Yes, rapidly

### Biodegradation:

Not readily biodegradable.

## 12.3. Bioaccumulative potential

**acetone** CAS No.: 67-64-1 EC No.: 200-662-2

**Log K<sub>OW</sub>**: -0.24

**propane** CAS No.: 74-98-6 EC No.: 200-827-9

**Log K<sub>OW</sub>**: 1.09

**n-butyl acetate** CAS No.: 123-86-4 EC No.: 204-658-1

**Log K<sub>OW</sub>**: 2.3

**Bioconcentration factor (BCF)**: 15.3

### Accumulation / Evaluation:

No further relevant information available.

## 12.4. Mobility in soil

No further relevant information available.

## 12.5. Results of PBT and vPvB assessment

**acetone** CAS No.: 67-64-1 EC No.: 200-662-2

**Results of PBT and vPvB assessment**: —

**Butane (with < 0,1 % butadiene (203-450-8))** CAS No.: 106-97-8 EC No.: 203-448-7

**Results of PBT and vPvB assessment**: —

**propane** CAS No.: 74-98-6 EC No.: 200-827-9

**Results of PBT and vPvB assessment**: —

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 8 Jul 2025

Version: 3

Page 14/17



## Copper Guard 500ml

**Hydrocarbons, C9, aromatics** CAS No.: 128601-23-0 EC No.: 918-668-5

**Results of PBT and vPvB assessment:** —

**n-butyl acetate** CAS No.: 123-86-4 EC No.: 204-658-1

**Results of PBT and vPvB assessment:** —

**copper** CAS No.: 7440-50-8 EC No.: 231-159-6

**Results of PBT and vPvB assessment:** —

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties.

### 12.7. Other adverse effects

Do not allow to enter into surface water or drains.

Drinking water hazard even when small quantities leak into the subsoil.

Harmful to fish. Harmful to aquatic life.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Must not be disposed of together with household waste. Do not allow to enter into surface water or drains.

#### 13.1.1. Product/Packaging disposal

#### Waste codes/waste designations according to EWC/AVV

##### Waste code product

08 02 99	Wastes not otherwise specified
----------	--------------------------------

#### Directive 2008/98/EC (Waste Framework Directive)





HP 3	Flammable
HP 4	Irritant — skin irritation and eye damage
HP 5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP 14	Ecotoxic

#### Waste treatment options

##### Appropriate disposal / Package:

Uncleaned packaging: Dispose of waste according to applicable legislation.

## SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
UN 1950	UN 1950	UN 1950	UN 1950
<b>14.2. UN proper shipping name</b>			
AEROSOLS, ENVIRONMENTALLY HAZARDOUS (Hydrocarbons, C9, aromatics)	AEROSOLS, ENVIRONMENTALLY HAZARDOUS (Hydrocarbons, C9, aromatics)	AEROSOLS, MARINE POLLUTANT (Hydrocarbons, C9, aromatics)	AEROSOLS, flammable (Hydrocarbons, C9, aromatics)
<b>14.3. Transport hazard class(es)</b>			
 2.1	 2.1	 2.1	 2.1
<b>14.4. Packing group</b>			
		-	

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 8 Jul 2025

Version: 3

Page 15/17



## Copper Guard 500ml

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.5. Environmental hazards</b>			
		 MARINE POLLUTANT	No
<b>14.6. Special precautions for user</b>			
<b>Special Provisions:</b> 190   327   344   625 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> E0 <b>Classification code:</b> 5F <b>Tunnel restriction code:</b> (D) <b>Remark:</b> Attention: Gases	<b>Special Provisions:</b> 190   327   344   625 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> E0 <b>Classification code:</b> 5F <b>Remark:</b> Attention: Gases	<b>Special Provisions:</b> 63   190   277   327   344   381   959 <b>Limited quantity (LQ):</b> Siehe SV277 <b>Excepted Quantities (EQ):</b> E0 <b>EmS-No.:</b> F-D, S-U <b>Remark:</b> Attention: Gases	<b>Special Provisions:</b> A145   A167 <b>Limited quantity (LQ):</b> Y203 <b>Excepted Quantities (EQ):</b> E0 <b>Remark:</b> Attention: Gases

### 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

#### 15.1.1. EU legislation

##### Authorisations:

Directive 2012/18/EU

Named dangerous substances - ANNEX I: None of the ingredients are included.

##### Restrictions on use:

Regulation (EC) No 1907/2006 ANNEX XVII: Restriction conditions: 3

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II: None of the ingredients are included.

Regulation (EU) 2019/1148

Annex I - RESTRICTED EXPORT SUBSTANCES FOR EXPLOSIVES (upper concentration limit for a permit pursuant to Article 5(3)): None of the ingredients are included.

Annex II - EXPLOSIVES REPORTABLE FOR EXPLOSIVES: Acetone (67-64-1)

Regulation (EC) No 273/2004 on drug precursors: Acetone (67-64-1)

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries: Acetone (67-64-1)

##### Other regulations (EU):

Hazard categories:

- P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids
- E2 Hazardous to the Aquatic Environment in Category Chronic 2

Named dangerous substances:

- Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas

##### Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 983 g/L

#### 15.1.2. National regulations

No data available

### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

**Revision date:** 7 Jul 2025

**Print date:** 8 Jul 2025

**Version:** 3

Page 16/17



## Copper Guard 500ml

### SECTION 16: Other information

#### \* 16.1. Indication of changes

1.3.	Details of the supplier of the safety data sheet
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
9.2.	Other information
12.1.	Toxicity
16.1.	Indication of changes
16.2.	Abbreviations and acronyms

#### \* 16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
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
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC <sub>50</sub>	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
IC <sub>50</sub>	Inhibition Concentration 50 %
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
KG	body weight
LC <sub>50</sub>	Lethal (fatal) Concentration 50%
LD <sub>50</sub>	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OEL	Threshold Limit Value
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds
ZNS	central nervous system

#### 16.3. Key literature references and sources for data

No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

Revision date: 7 Jul 2025

Print date: 8 Jul 2025

Version: 3

Page 17/17



## Copper Guard 500ml

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
aerosol dispensers and lighters (Aerosol 1)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	
Serious eye damage/eye irritation (Eye Irrit. 2)	H319: Causes serious eye irritation.	
STOT-single exposure (STOT SE 3)	H335: May cause respiratory irritation.	
STOT-single exposure (STOT SE 3)	H336: May cause drowsiness or dizziness.	
Hazardous to the aquatic environment (Aquatic Chronic 1)	H410: Very toxic to aquatic life with long lasting effects.	

### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
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.
Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

### 16.6. Training advice

No data available

### 16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

\* Data changed compared with the previous version.