

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 7 Sep 2022

Print date: 14 Oct 2022

Version: 2.0



## INDALLOY 256 (SAC305) with INDIUM 8.9HF1

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

#### 1.1. Product identifier

Trade name/designation:

INDALLOY 256 (SAC305) with INDIUM 8.9HF1

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

Use of the substance/mixture:

Solder Paste

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

##### Supplier:

Indium Corporation of America

Americas  
34 Robinson Road  
13323 Clinton, NY  
United States

Telephone: (315) 853-4900

Telefax: (315) 853-1000

E-mail: EHS\_Compliance@indium.com

Website: <https://www.indium.com>

##### Supplier (manufacturer/importer/only representative/downstream user/distributor):

Indium Corporation  
Malaysia Sdn Bhd  
PMT 795, South Cassia Road 3/11  
14110 Cassia City  
Malaysia

Telephone: +60-045884262

E-mail (competent person): EHS\_Compliance@indium.com

CHEMTREC 24 hrs

#### 1.4. Emergency telephone number

Portugal, 24h: 351-308801773

Hungary, 24h: 36-18088425

Romania, 24h: 40-37-6300026

Germany, 24h: 0800-181-7059 or (Frankfurt) 49-69643508409

United Kingdom, 24h: 44-870-8200418 and 44-2038073798

Italy, 24h: 800-789-767

Outside USA:, 24h: +1 (703) 527-3887

France, 24h: 33-975181407

USA, 24h: 1 (800) 424-9300

Poland, 24h: 48-223988029

China, 24h: +86 4001-204937

### 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
Reproductive toxicity ( <i>Repr. 1B</i> )	H360FD: May damage fertility. May damage the unborn child.	
Hazardous to the aquatic environment ( <i>Aquatic Acute 1</i> )	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 1</i> )	H410: Very toxic to aquatic life with long lasting effects.	

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Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation ( <i>Skin Sens. 1B</i> )	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	
Respiratory or skin sensitisation ( <i>Resp. Sens. 1B</i> )	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	

### 2.2. Label elements

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

Hazard pictograms:



**GHS08**  
Health hazard



**GHS09**  
Environment



**GHS07**  
Exclamation mark

Signal word: Danger

Hazard statements for health hazards	
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H360FD	May damage fertility. May damage the unborn child.

Hazard statements for environmental hazards	
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Supplemental hazard information	
EUH208	Contains Rosin, oligomers. May produce an allergic reaction.

#### Special rules for supplemental label elements for certain mixtures:

5.7 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

8.7 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
<b>CAS No.:</b> 7440-31-5 <b>EC No.:</b> 231-141-8 <b>REACH No.:</b> 01-2119486474-28-XXXX	<b>tin</b> Substance with a community workplace exposure limit.	49 - < 82.03 weight-%
<b>CAS No.:</b> 65997-05-9 <b>REACH No.:</b> 01-2119964093-37-XXXX	<b>Dimerized rosin</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	3 - ≤ 6 weight-%
<b>CAS No.:</b> 9038-95-3	<b>Polyglycol Ether</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	3 - ≤ 5 weight-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 7440-22-4 EC No.: 231-131-3 REACH No.: 01-2119555669-21-XXXX	<b>Silver</b> Substance with a community workplace exposure limit.	1 - ≤ 2.55 weight-%
CAS No.: 143-24-8 EC No.: 205-594-7 Index No.: 603-238-00-9	<b>bis(2-(2-methoxyethoxy)ethyl) ether</b> <i>Candidate List of Substances of Very High Concern for Authorisation!</i> Repr. 1B (H360FD) <b>Danger</b>	0 - ≤ 1.05 weight-%
CAS No.: 7440-50-8 EC No.: 231-159-6 Index No.: 029-024-00-X REACH No.: 01-2119480154-42-XXXX	<b>copper</b> Aquatic Chronic 2 (H411) 	0 - < 0.43 weight-%

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended. Warning First aider: Pay attention to self-protection!

##### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Get immediate medical advice/attention. Get medical advice/attention if you feel unwell.

##### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

##### 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.

##### Following ingestion:

Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

##### Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider.

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

Allergic reactions Serious eye damage/eye irritation Asthmatic complaints Respiratory complaints

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

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

The product itself does not burn.

##### Hazardous combustion products:

In case of fire: Gases/vapours, toxic

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### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

**Personal precautions:**

Remove persons to safety.

**Protective equipment:**

Wear protective gloves/protective clothing/eye protection/face protection.

#### 6.1.2. For emergency responders

**Personal protection equipment:**

Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

**For containment:**

Collect spillage. Measures to prevent aerosol and dust generation Wet clean or vacuum up solids.

**For cleaning up:**

Water (with cleaning agent)

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Wear personal protection equipment (refer to section 8). Avoid contact during pregnancy/while nursing.

**Measures to prevent aerosol and dust generation:**

Dust should be exhausted directly at the point of origin.

**Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

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

**Technical measures and storage conditions:**

Keep container tightly closed in a cool, well-ventilated place.

**Storage class (TRGS 510, Germany):** 13 - Non-combustible solids that cannot be assigned to any of the above storage classes

### 7.3. Specific end use(s)

No data available

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### 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
IOELV (EU)	tin CAS No.: 7440-31-5 EC No.: 231-141-8	① 2 mg/m <sup>3</sup>
ACGIH (US)	tin CAS No.: 7440-31-5 EC No.: 231-141-8	① 2 mg/m <sup>3</sup> ⑤ (metal and compounds, inorganic; inhalable fraction)
IDLH (US)	tin CAS No.: 7440-31-5 EC No.: 231-141-8	① 100 Sn/m <sup>3</sup>
OSHA (US)	tin CAS No.: 7440-31-5 EC No.: 231-141-8	① 2 mg/m <sup>3</sup>
NIOSH (US)	tin CAS No.: 7440-31-5 EC No.: 231-141-8	① 2 mg/m <sup>3</sup>
IOELV (EU)	Silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.01 mg/m <sup>3</sup> ⑤ (silver compounds, soluble, calculated as Ag )
NIOSH (US)	Silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.01 mg/m <sup>3</sup> ⑤ compounds, soluble; calculated as Ag
IOELV (EU)	Silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.1 mg/m <sup>3</sup> ⑤ (metal)
ACGIH (US)	Silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.01 mg/m <sup>3</sup> ⑤ compounds, soluble
OSHA (US)	Silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.01 mg/m <sup>3</sup>
IDLH (US)	Silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 10 Ag/m <sup>3</sup>
IDLH (US)	Silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 10 Ag/m <sup>3</sup> ⑤ (compounds, soluble)
NIOSH (US)	Silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.01 mg/m <sup>3</sup>
ACGIH (US)	Silver CAS No.: 7440-22-4 EC No.: 231-131-3	① 0.1 mg/m <sup>3</sup>
OSHA (US)	copper CAS No.: 7440-50-8 EC No.: 231-159-6	① 0.1 mg/m <sup>3</sup> ⑤ (Smoke; calculated as Cu)
ACGIH (US)	copper CAS No.: 7440-50-8 EC No.: 231-159-6	① 0.2 mg/m <sup>3</sup> ⑤ (Smoke)

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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
IDLH (US)	copper CAS No.: 7440-50-8 EC No.: 231-159-6	① 100 Cu/m <sup>3</sup> ⑤ (dust and mist)
IDLH (US)	copper CAS No.: 7440-50-8 EC No.: 231-159-6	① 100 Cu/m <sup>3</sup> ⑤ (Smoke)
OSHA (US)	copper CAS No.: 7440-50-8 EC No.: 231-159-6	① 1 mg/m <sup>3</sup> ⑤ (Dusts and mist calculated as Cu)
NIOSH (US)	copper CAS No.: 7440-50-8 EC No.: 231-159-6	① 1 mg/m <sup>3</sup>
ACGIH (US)	copper CAS No.: 7440-50-8 EC No.: 231-159-6	① 1 mg/m <sup>3</sup> ⑤ (Dusts and mist calculated as Cu)

### 8.1.2. Biological limit values

No data available

### 8.1.3. DNEL-/PNEC-values

No data available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No data available

### 8.2.2. Personal protection equipment

#### Eye/face protection:

Eye glasses with side protection EN 166

#### Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well.

#### Respiratory protection:

Particle filter device (EN 143)

### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

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

#### Appearance

Physical state: solid

Colour: grey

Odour: not determined

#### Safety relevant basis data

Parameter	Value	① Method ② Remark
pH	4 - 4	② Flux agent
Melting point	No data available	
Freezing point	No data available	
Initial boiling point and boiling range	No data available	
Decomposition temperature	No data available	
Flash point	No data available	

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Parameter	Value	① Method ② Remark
Evaporation rate	No data available	
Auto-ignition temperature	No data available	
Upper/lower flammability or explosive limits	not applicable	
Vapour pressure	not determined	
Vapour density	not determined	
Density	not determined	
Relative density	not determined	
Bulk density	not determined	
Water solubility	practically insoluble	
Partition coefficient: n-octanol/water	not determined	
Dynamic viscosity	not determined	
Kinematic viscosity	not determined	

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product itself does not burn.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

Thermally stable.

### 10.4. Conditions to avoid

extreme temperatures

### 10.5. Incompatible materials

Acids; alkalines; Oxidizing agent

### 10.6. Hazardous decomposition products

In case of fire: Gases/vapours, toxic

## SECTION 11: Toxicological information

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

<b>tin</b> CAS No.: 7440-31-5 EC No.: 231-141-8
<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (rat) OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (rat)
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >4.75 mg/L 4 h (rat)
<b>Silver</b> CAS No.: 7440-22-4 EC No.: 231-131-3
<b>LD<sub>50</sub> oral:</b> 3,702 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)
<b>LD<sub>50</sub> dermal:</b> >348 mg/kg (guinea pig) OECD Guideline 434 (Acute Dermal Toxicity - Fixed Dose Procedure)
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> =0.00213 - =0.00807 mg/L 4 d (Fish)
<b>bis(2-(2-methoxyethoxy)ethyl) ether</b> CAS No.: 143-24-8 EC No.: 205-594-7
<b>LD<sub>50</sub> oral:</b> 3,850 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)
<b>Dimerized rosin</b> CAS No.: 65997-05-9
<b>LD<sub>50</sub> oral:</b> >1,000 mg/kg (rat) OECD Guideline 401 (Acute Oral Toxicity)
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (rat) OECD Guideline 402 (Acute Dermal Toxicity)

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<b>copper</b> CAS No.: 7440-50-8 EC No.: 231-159-6
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<b>LD<sub>50</sub> oral:</b> 481 mg/kg (rat)
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<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (rat)
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### 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.

### Serious eye damage/irritation:

Causes serious eye irritation.

### Respiratory or skin sensitisation:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Contains Rosin, oligomers. May produce an allergic reaction.

### 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. May damage fertility. May damage the unborn child.

### STOT-single exposure:

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

### 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.

### Additional information:

No data available

### 11.2. Information on other hazards

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>tin</b> CAS No.: 7440-31-5 EC No.: 231-141-8
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<b>LC<sub>50</sub>:</b> >0.0124 mg/L 4 d (fish, Pimephales promelas) OECD Guideline 203 (Fish, Acute Toxicity Test)
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<b>EC<sub>50</sub>:</b> >0.0192 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
---

<b>NOEC:</b> 0.0192 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)) OECD Guideline 201 (Alga, Growth Inhibition Test)
---

<b>NOEC:</b> 0.0124 mg/L 4 d (fish, Pimephales promelas) OECD Guideline 203 (Fish, Acute Toxicity Test)
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<b>LOEC:</b> 0.2 mg/L 7 d (crustaceans, Ceriodaphnia dubia) EPA 1002.0
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<b>Silver CAS No.:</b> 7440-22-4 <b>EC No.:</b> 231-131-3
<b>LC<sub>50</sub>:</b> 0.0012 mg/L 4 d (fish, <i>Pimephales promelas</i> )
<b>LC<sub>50</sub>:</b> 0.00022 mg/L 2 d (crustaceans, <i>Daphnia magna</i> )
<b>EC<sub>50</sub>:</b> 0.000016 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> ))
<b>NOEC:</b> 0.000003 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> ))
<b>NOEC:</b> 0.000057 mg/L 21 d (crustaceans, <i>Daphnia magna</i> )
<b>NOEC:</b> 0.019 mg/L 28 d (crustaceans, <i>Americamysis bahia</i> (previous name: <i>Mysidopsis bahia</i> )) ASTM E1191-97 (2003) and ASTM E1241-98 (2003).
<b>LOEC:</b> 0.00013 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> ))
<b>LOEC:</b> 0.000163 mg/L 21 d (crustaceans, <i>Daphnia magna</i> )
<b>bis(2-(2-methoxyethoxy)ethyl) ether CAS No.:</b> 143-24-8 <b>EC No.:</b> 205-594-7
<b>LC<sub>50</sub>:</b> >5,000 mg/L 4 d (fish, <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i> ))
<b>EC<sub>50</sub>:</b> 2,814 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> ))
<b>EC<sub>50</sub>:</b> 7,467 mg/L 2 d (crustaceans, <i>Daphnia magna</i> )
<b>NOEC:</b> <625 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> ))
<b>NOEC:</b> ≥5,000 mg/L 4 d (fish, <i>Danio rerio</i> (previous name: <i>Brachydanio rerio</i> ))
<b>NOEC:</b> 2,500 mg/L 2 d (crustaceans, <i>Daphnia magna</i> )
<b>NOEC:</b> 320 mg/L 21 d (crustaceans, <i>Daphnia magna</i> ) OECD Guideline 211 ( <i>Daphnia magna</i> Reproduction Test)
<b>LOEC:</b> 5,000 mg/L 2 d (crustaceans, <i>Daphnia magna</i> )
<b>Dimerized rosin CAS No.:</b> 65997-05-9
<b>LC<sub>50</sub>:</b> 1.7 mg/L 4 d (fish, <i>Pimephales promelas</i> ) OECD Guideline 203 (Fish, Acute Toxicity Test)
<b>LC<sub>50</sub>:</b> 1.6 mg/L 2 d (crustaceans, <i>Daphnia magna</i> ) OECD Guideline 202 ( <i>Daphnia</i> sp. Acute Immobilisation Test)
<b>EC<sub>50</sub>:</b> 16.6 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> )) OECD Guideline 201 (Alga, Growth Inhibition Test)
<b>NOEC:</b> 6.25 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> (previous names: <i>Raphidocelis subcapitata</i> , <i>Selenastrum capricornutum</i> )) OECD Guideline 201 (Alga, Growth Inhibition Test)
<b>NOEC:</b> 0.625 mg/L 4 d (fish, <i>Pimephales promelas</i> ) OECD Guideline 203 (Fish, Acute Toxicity Test)
<b>NOEC:</b> 0.625 mg/L 2 d (crustaceans, <i>Daphnia magna</i> ) OECD Guideline 202 ( <i>Daphnia</i> sp. Acute Immobilisation Test)
<b>copper CAS No.:</b> 7440-50-8 <b>EC No.:</b> 231-159-6
<b>LC<sub>50</sub>:</b> ≥0.0087 - ≤21 mg/L 4 d (fish)
<b>LC<sub>50</sub>:</b> ≤5.36 mg/L 2 d (crustaceans)

### Aquatic toxicity:

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

<b>Silver CAS No.:</b> 7440-22-4 <b>EC No.:</b> 231-131-3
<b>Bioconcentration factor (BCF):</b> 143 Species: <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i> )
<b>bis(2-(2-methoxyethoxy)ethyl) ether CAS No.:</b> 143-24-8 <b>EC No.:</b> 205-594-7
<b>Log K<sub>OW</sub>:</b> 0.84
<b>Dimerized rosin CAS No.:</b> 65997-05-9
<b>Log K<sub>OW</sub>:</b> > 6.5
<b>Bioconcentration factor (BCF):</b> 7,748

### 12.4. Mobility in soil

No data available

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### 12.5. Results of PBT and vPvB assessment

<b>tin</b> CAS No.: 7440-31-5 EC No.: 231-141-8
Results of PBT and vPvB assessment: —
<b>Silver</b> CAS No.: 7440-22-4 EC No.: 231-131-3
Results of PBT and vPvB assessment: —
<b>bis(2-(2-methoxyethoxy)ethyl) ether</b> CAS No.: 143-24-8 EC No.: 205-594-7
Results of PBT and vPvB assessment: —
<b>Dimerized rosin</b> CAS No.: 65997-05-9
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
<b>copper</b> CAS No.: 7440-50-8 EC No.: 231-159-6
Results of PBT and vPvB assessment: —
<b>Polyglycol Ether</b> CAS No.: 9038-95-3
Results of PBT and vPvB assessment: —

### 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

No data available

## SECTION 13: Disposal considerations


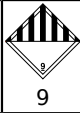
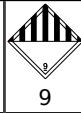
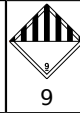




### 13.1. Waste treatment methods

#### Waste treatment options

#### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

## 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 3077	UN 3077	UN 3077	UN 3077
<b>14.2. UN proper shipping name</b>			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
<b>14.3. Transport hazard class(es)</b>			
 9	 9	 9	 9
<b>14.4. Packing group</b>			
III	III	III	III
<b>14.5. Environmental hazards</b>			
		 MARINE POLLUTANT	
<b>14.6. Special precautions for user</b>			
<b>Special Provisions:</b> 274   335   375   601 <b>Limited quantity (LQ):</b> 5 kg <b>Excepted Quantities (EQ):</b> E1	<b>Special Provisions:</b> 274   335   375   601 <b>Limited quantity (LQ):</b> 5 kg <b>Excepted Quantities (EQ):</b> E1	<b>Special Provisions:</b> 274   335   966   967   969 <b>Limited quantity (LQ):</b> 5 kg <b>Excepted Quantities (EQ):</b> E1	<b>Special Provisions:</b> A97   A158   A179   A197   A215 <b>Limited quantity (LQ):</b> Y956 <b>Excepted Quantities (EQ):</b> E1

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 7 Sep 2022

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Version: 2.0



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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>Hazard identification number (Kemler No.):</b> 90 <b>Classification code:</b> M7 <b>Tunnel restriction code:</b> (-)	<b>Classification code:</b> M7	<b>EmS-No.:</b> F-A, S-F	

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

No data available

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation


##### Authorisations:

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: bis(2-(2-methoxyethoxy)ethyl) ether

#### 15.1.2. National regulations

##### [US] National regulations

##### California Proposition 65 list of chemicals

 **WARNING:** This product can expose you to chemicals including [trace amounts of lead] which is known to the State of California to cause cancer, and can cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

#### 15.2. Chemical Safety Assessment

No data available

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

No data available

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

Substance name	Type	source of supply
tin <b>CAS No.:</b> 7440-31-5 <b>EC No.:</b> 231-141-8	LD <sub>50</sub> oral; LD <sub>50</sub> dermal; LC <sub>50</sub> Acute inhalation toxicity (dust/mist); LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC; LOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
Silver <b>CAS No.:</b> 7440-22-4 <b>EC No.:</b> 231-131-3	LD <sub>50</sub> oral; LD <sub>50</sub> dermal; LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC; LOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
bis(2-(2-methoxyethoxy)ethyl) ether <b>CAS No.:</b> 143-24-8 <b>EC No.:</b> 205-594-7	LD <sub>50</sub> oral; LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC; LOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
Dimerized rosin <b>CAS No.:</b> 65997-05-9	LD <sub>50</sub> oral; LD <sub>50</sub> dermal; LC <sub>50</sub> ; EC <sub>50</sub> ; NOEC	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
copper <b>CAS No.:</b> 7440-50-8 <b>EC No.:</b> 231-159-6	LD <sub>50</sub> oral; LD <sub>50</sub> dermal	Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>

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### 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
Reproductive toxicity ( <i>Repr. 1B</i> )	H360FD: May damage fertility. May damage the unborn child.	
Hazardous to the aquatic environment ( <i>Aquatic Acute 1</i> )	H400: Very toxic to aquatic life.	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 1</i> )	H410: Very toxic to aquatic life with long lasting effects.	
Respiratory or skin sensitisation ( <i>Skin Sens. 1B</i> )	H317: May cause an allergic skin reaction.	
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	
Respiratory or skin sensitisation ( <i>Resp. Sens. 1B</i> )	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	

### 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H360FD	May damage fertility. May damage the unborn child.
H411	Toxic to aquatic life with long lasting effects.

### 16.6. Training advice

No data available

### 16.7. Additional information

No data available