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

1.1. Product identifier

Product name: ACRYL-KLARLACK MS
Product code: I1

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

Use of substance / mixture: Surface coating for industrial or professional application. For information regarding additional possible application please email us or dial the indicated phone number as shown below. We will connect you with our responsible technical personnel.

1.3. Details of the supplier of the safety data sheet

Company name: AIRO CHEMIE
A. Schmiemann GmbH & Co KG
Carl-Leverkus Str. 27
D - 40764 Langenfeld
Deutschland
Tel: [49] 02173 8538-0
Fax: [49] 02173 8538-60
Email: labor@airo-chemie.com

1.4. Emergency telephone number

Emergency tel: 030-30686790

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Asp. Tox. 1: H304; Aquatic Chronic 3: H412; Flam. Liq. 3: H226
Most important adverse effects: Flammable liquid and vapour. May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements under CLP:

Hazard statements: H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H412: Harmful to aquatic life with long lasting effects.

Signal words: Danger
Hazard pictograms: GHS02: Flame
GHS08: Health hazard

[cont...]
Precautionary statements:

P102: Keep out of reach of children.
P243: Take precautionary measures against static discharge.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing.
Rinse skin with.
P331: Do NOT induce vomiting.
P370+378: In case of fire: Use alcohol-resistant foam for extinction.
P403+235: Store in a well-ventilated place. Keep cool.

2.3. Other hazards

Other hazards: In use, may form flammable/explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

2-METHOXY-1-METHYLETHYL ACETATE

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>CHIP Classification</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
</table>

LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>CHIP Classification</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>265-199-0</td>
<td>64742-95-6</td>
<td>-</td>
<td>Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H335; Aquatic Chronic 2: H411</td>
<td>10-30%</td>
</tr>
</tbody>
</table>

N-BUTYL ACETATE

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>CHIP Classification</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>204-658-1</td>
<td>123-86-4</td>
<td>Substance with a Community workplace exposure limit.</td>
<td>Flam. Liq. 3: H226; STOT SE 3: H336; -: EUH066</td>
<td>1-10%</td>
</tr>
</tbody>
</table>

XYLENE

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>CHIP Classification</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>215-535-7</td>
<td>1330-20-7</td>
<td>-</td>
<td>Flam. Liq. 3: H226; Acute Tox. 4: H332; Acute Tox. 4: H312; Skin Irrit. 2: H315</td>
<td>1-10%</td>
</tr>
</tbody>
</table>

Section 4: First aid measures

4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.
4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** There may be irritation and redness at the site of contact.

**Eye contact:** There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

**Extinguishing media:** Alcohol or polymer foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** Flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture.

5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

6.4. Reference to other sections

Section 7: Handling and storage

[cont...]
7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

Suitable packaging: Coated steel.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

2-METHOXY-1-METHYLETHYL ACETATE

<table>
<thead>
<tr>
<th>State</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>274 mg/m³</td>
<td>548 mg/m³</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

N-BUTYL ACETATE

<table>
<thead>
<tr>
<th>State</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>724 mg/m³</td>
<td>966 mg/m³</td>
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<td>-</td>
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</table>

XYLENE

<table>
<thead>
<tr>
<th>State</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>220 mg/m³</td>
<td>441 mg/m³</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

DNEL/PNEC Values

DNEL / PNEC  No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves. Gloves (solvent-resistant).

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless
SAFETY DATA SHEET
ACRYL-KLARLACK MS

Solubility in water: Not miscible
Also soluble in: Most organic solvents.
Viscosity: Non-viscous
Boiling point/range°C: 137
Melting point/range°C: n.v.
Flash point°C: > 25
Part.coef. n-octanol/water: n.v.
Autoflammability°C: 465
Vapour pressure: 7-8 mbar
Relative density: 0.977 g/cm3
pH: n.a.
VOC g/l: 508 g/l

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Chemical stability: Stable under normal conditions. Stable at room temperature.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid


10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

2-METHOXY-1-METHYLETHYL ACETATE

<table>
<thead>
<tr>
<th>IPR</th>
<th>MUS</th>
<th>LD50</th>
<th>750</th>
<th>mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORL</td>
<td>RAT</td>
<td>LD50</td>
<td>8532</td>
<td>mg/kg</td>
</tr>
</tbody>
</table>

LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

| ORL | RAT | LD50 | 8400 | mg/kg |

[cont...]
## Toxicity values:

There may be irritation and redness at the site of contact. There may be irritation and redness. The eyes may water profusely. There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting. There may be irritation of the throat with a feeling of tightness in the chest.

### Section 12: Ecological information

#### 12.1. Toxicity

**Ecotoxicity values:** No data available.

#### 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

#### 12.4. Mobility in soil

**Mobility:** Readily absorbed into soil.

#### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

#### 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

## Section 13: Disposal considerations

#### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Waste code number:** 08 01 11

**Disposal of packaging:** Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.
SAFETY DATA SHEET
ACRYL-KLARLACK MS

Section 14: Transport information

14.1. UN number

UN number: UN1263

14.2. UN proper shipping name

Shipping name: PAINT

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Tunnel code: D/E

Transport category: 3

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Section 16: Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3:
EUH066: Repeated exposure may cause skin dryness or cracking.
H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

Legend to abbreviations:
PNEC = predicted no effect level
DNEL = derived no effect level

[cont...]
LD50 = median lethal dose
LC50 = median lethal concentration
EC50 = median effective concentration
IC50 = median inhibitory concentration
dw = dry weight
bw = body weight
cc = closed cup
oc = open cup
MUS = mouse
GPG = guinea pig
RBT = rabbit
HAM = hamster
HMN = human
MAM = mammal
PGN = pigeon
IVN = intravenous
SCU = subcutaneous
SKN = skin
DRM = dermal
OCC = ocular/corneal
PCP = phycico-chemical properties

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.
Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: ACRYL-ÄRTER MS 2:1 EXTRA-LANG
Product code: IF

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

Use of substance / mixture: Surface coating for industrial or professional application. For information regarding additional possible application please email us or dial the indicated phone number as shown below. We will connect you with our responsible technical personnel.

1.3. Details of the supplier of the safety data sheet

Company name: AIRO CHEMIE
A. Schmiemann GmbH & Co KG
Carl-Leverkus Str. 27
D - 40764 Langenfeld
Deutschland
Tel: [49] 02173 8538-0
Fax: [49] 02173 8538-60
Email: labor@airo-chemie.com

1.4. Emergency telephone number

Emergency tel: 030-30686790

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Asp. Tox. 1: H304; STOT SE 3: H336; Aquatic Chronic 2: H411; Flam. Liq. 3: H226; Skin Sens. 1: H317; STOT SE 3: H335

Most important adverse effects: Flammable liquid and vapour. May be fatal if swallowed and enters airways. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects.

2.2. Label elements

H304: May be fatal if swallowed and enters airways.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H411: Toxic to aquatic life with long lasting effects.
SAFETY DATA SHEET
ACRYL-HÄRTER MS 2:1 EXTRA-LANG

Signal words: Danger

Hazard pictograms:
- GHS02: Flame
- GHS07: Exclamation mark
- GHS08: Health hazard
- GHS09: Environmental

Precautionary statements:
- P102: Keep out of reach of children.
- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P243: Take precautionary measures against static discharge.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/.
- P302+352: IF ON SKIN: Wash with plenty of water/.
- P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P331: Do NOT induce vomiting.
- P333+313: If skin irritation or rash occurs: Get medical advice/attention.
- P370+378: In case of fire: Use alcohol-resistant foam to extinguish.
- P403+233: Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards

Other hazards:
In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>28182-81-2</td>
<td>-</td>
<td>Skin Sens. 1: H317</td>
<td>30-50%</td>
</tr>
</tbody>
</table>

[cont...]
## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

**Eye contact:** Bathe the eye with running water for 15 minutes.

**Ingestion:** wash out mouth with water.

**Inhalation:** Consult a doctor.

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

**Skin contact:** There may be mild irritation at the site of contact.

**Eye contact:** There may be irritation and redness.

**Ingestion:** There may be irritation of the throat.

**Inhalation:** No symptoms.

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

**Immediate / special treatment:** Not applicable.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Alcohol resistant foam. Water spray. Carbon dioxide. Dry chemical powder.

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

**Exposure hazards:** Flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

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

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Notify the police and fire brigade immediately. Eliminate all sources of ignition. Turn leaking containers leak-side up to prevent the escape of liquid.
6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Smoking is forbidden. Use non-sparking tools. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

Suitable packaging: Coated steel.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

N-BUTYL ACETATE

<table>
<thead>
<tr>
<th>Workplace exposure limits</th>
<th>Respirable dust</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>8 hour TWA</td>
</tr>
<tr>
<td>UK</td>
<td>724 mg/m3</td>
</tr>
</tbody>
</table>

2-METHOXY-1-METHYLETHYL ACETATE

<table>
<thead>
<tr>
<th>State</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>274 mg/m3</td>
<td>548 mg/m3</td>
</tr>
</tbody>
</table>

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.
Respiratory protection: Respiratory protection not required.
Hand protection: Protective gloves.
Eye protection: Safety glasses. Ensure eye bath is to hand.
Skin protection: Protective clothing.

### Section 9: Physical and chemical properties

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

- **State:** Liquid
- **Colour:** Colourless
- **Solubility in water:** Not miscible
- **Also soluble in:** Most organic solvents.
- **Viscosity:** Non-viscous
- **Boiling point/range°C:** 127
- **Flammability limits %:** lower: 1
- **Flash point°C:** 32
- **Autoflammability°C:** 370
- **Relative density:** 0.965 g/cm³
- **VOC g/l:** 600
- **Melting point/range°C:** n.v.
- **Upper:** 7.6
- **Part.coeff. n-octanol/water:** n.v.
- **Vapour pressure:** 10.7 mbar
- **pH:** n.a.

#### 9.2. Other information

- **Other information:** No data available.

### Section 10: Stability and reactivity

#### 10.1. Reactivity

- **Reactivity:** Stable under recommended transport or storage conditions.

#### 10.2. Chemical stability

- **Chemical stability:** Stable under normal conditions. Stable at room temperature.

#### 10.3. Possibility of hazardous reactions

- **Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.
  
  Decomposition may occur on exposure to conditions or materials listed below.

#### 10.4. Conditions to avoid

- **Conditions to avoid:** Heat. Hot surfaces. Sources of ignition. Flames.

#### 10.5. Incompatible materials

- **Materials to avoid:** Strong oxidising agents. Strong acids.

#### 10.6. Hazardous decomposition products

- **Haz. decomp. products:** In combustion emits toxic fumes.
Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

**N-BUTYL ACETATE**

<table>
<thead>
<tr>
<th>Route</th>
<th>Species</th>
<th>LD50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORL</td>
<td>MUS</td>
<td>6</td>
<td>gm/kg</td>
</tr>
<tr>
<td>ORL</td>
<td>RAT</td>
<td>10768</td>
<td>mg/kg</td>
</tr>
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</table>

**2-METHOXY-1-METHYLETHYL ACETATE**

<table>
<thead>
<tr>
<th>Route</th>
<th>Species</th>
<th>LD50</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPR</td>
<td>MUS</td>
<td>750</td>
<td>mg/kg</td>
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<tr>
<td>ORL</td>
<td>RAT</td>
<td>8532</td>
<td>mg/kg</td>
</tr>
</tbody>
</table>

Toxicity values: No data available.

Symptoms / routes of exposure:

- **Skin contact:** There may be mild irritation at the site of contact.
- **Eye contact:** There may be irritation and redness.
- **Ingestion:** There may be irritation of the throat.
- **Inhalation:** No symptoms.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.
**SAFETY DATA SHEET**

**ACRYL-HÄRTER MS 2:1 EXTRA-LANG**

### Waste code number:

08 05 01

### Disposal of packaging:

Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

---

**Section 14: Transport information**

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<th>14.1. UN number</th>
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<tr>
<td><strong>UN number:</strong> UN1263</td>
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<table>
<thead>
<tr>
<th>14.2. UN proper shipping name</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shipping name:</strong> PAINT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.3. Transport hazard class(es)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transport class:</strong> 3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>14.4. Packing group</th>
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</thead>
<tbody>
<tr>
<td><strong>Packing group:</strong> III</td>
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</table>

<table>
<thead>
<tr>
<th>14.5. Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Environmentally hazardous:</strong> Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14.6. Special precautions for user</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Special precautions:</strong> No special precautions.</td>
</tr>
<tr>
<td><strong>Tunnel code:</strong> D/E</td>
</tr>
<tr>
<td><strong>Transport category:</strong> 3</td>
</tr>
</tbody>
</table>

---

**Section 15: Regulatory information**

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

15.2. Chemical Safety Assessment

---

**Section 16: Other information**

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:**

- EUH066: Repeated exposure may cause skin dryness or cracking.
- H226: Flammable liquid and vapour.
- H304: May be fatal if swallowed and enters airways.
- H317: May cause an allergic skin reaction.
- H335: May cause respiratory irritation.
- H336: May cause drowsiness or dizziness.
- H411: Toxic to aquatic life with long lasting effects.
Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.
Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: ACRYL-HÄRTER MS 2:1 NORMAL
Product code: I3

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

Use of substance / mixture: Surface coating for industrial or professional application. For information regarding additional possible application please email us or dial the indicated phone number as shown below. We will connect you with our responsible technical personnel.

1.3. Details of the supplier of the safety data sheet

Company name: AIRO CHEMIE
A. Schmiemann GmbH & Co KG
Carl-Leverkus Str. 27
D - 40764 Langenfeld
Deutschland
Tel: [49] 02173 8538-0
Fax: [49] 02173 8538-60
Email: labor@airo-chemie.com

1.4. Emergency telephone number

Emergency tel: 030-30686790

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: STOT SE 3: H336; Aquatic Chronic 3: H412; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317; Skin Sens. 1A: H317; Skin Sens. 1B: H317; STOT SE 3: H335

Most important adverse effects: Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements under CLP:

Hazard statements:

H226: Flammable liquid and vapour.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H412: Harmful to aquatic life with long lasting effects.
SAFETY DATA SHEET
ACRYL-HÄRTER MS 2:1 NORMAL

Page: 2

Signal words: Warning
Hazard pictograms: GHS02: Flame
GHS07: Exclamation mark

Precautionary statements:
P102: Keep out of reach of children.
P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233: Keep container tightly closed.
P240: container and receiving equipment.
P241: Use explosion-proof equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.
P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312: Call a POISON CENTER or doctor if you feel unwell.
P332+313: If skin irritation occurs: Get medical.
P333+313: If skin irritation or rash occurs: Get medical.
P370+378: In case of fire: Use alcohol-resistant foam for extinction.
P403+235: Store in a well-ventilated place. Keep cool.

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.
PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:
SAFETY DATA SHEET
ACRYL-HÄRTER MS 2:1 NORMAL

HEXAMETHYLEN-1,6-DIISOCYANAT, HOMOPOLYMER

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>CHIP Classification</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>30-50%</td>
</tr>
</tbody>
</table>

N-BUTYL ACETATE

| 204-658-1 | 123-86-4 | Substance with a Community workplace exposure limit. | Flam. Liq. 3: H226; STOT SE 3: H336; -: EUH066 | 10-30% |

XYLENE

| 215-535-7 | 1330-20-7 | - | Flam. Liq. 3: H226; Acute Tox. 4: H332; Acute Tox. 4: H312; Skin Irrit. 2: H315 | 10-30% |

LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

| 265-199-0 | 64742-95-6 | - | Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H335; Aquatic Chronic 2: H411 | 10-30% |

2-METHOXY-1-METHYLETHYL ACETATE

| 203-603-9 | 108-65-6 | Substance with a Community workplace exposure limit. | Flam. Liq. 3: H226 | 1-10% |

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one’s own safety whilst doing so. Consult a doctor.

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

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Alcohol or polymer foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.
5.2. Special hazards arising from the substance or mixture


5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters
Hazardous ingredients:

N-BUTYL ACETATE

Workplace exposure limits:  

<table>
<thead>
<tr>
<th>State</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>724 mg/m³</td>
<td>966 mg/m³</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

XYLENE

<table>
<thead>
<tr>
<th>State</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>220 mg/m³</td>
<td>441 mg/m³</td>
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<td>-</td>
</tr>
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</table>

2-METHOXY-1-METHYLETHYL ACETATE

<table>
<thead>
<tr>
<th>State</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>274 mg/m³</td>
<td>548 mg/m³</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Impermeable gloves. Gloves (solvent-resistant).

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>State</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Colourless</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Not miscible</td>
</tr>
<tr>
<td>Also soluble in</td>
<td>Most organic solvents.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Non-viscous</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>14 sec</td>
</tr>
<tr>
<td>Boiling point/range°C</td>
<td>127</td>
</tr>
<tr>
<td>Flammability limits %: lower</td>
<td>1</td>
</tr>
<tr>
<td>Flash point°C</td>
<td>32</td>
</tr>
<tr>
<td>Autoflammability°C</td>
<td>370</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.965 g/cm³</td>
</tr>
<tr>
<td>VOC g/l</td>
<td>600</td>
</tr>
<tr>
<td>Melting point/range°C</td>
<td>n.v.</td>
</tr>
<tr>
<td>upper</td>
<td>7.6</td>
</tr>
<tr>
<td>Part.coef. n-octanol/water</td>
<td>n.v.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>10.7 mbar</td>
</tr>
<tr>
<td>pH</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

9.2. Other information

Other information: No data available.
Section 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Chemical stability: Stable under normal conditions. Stable at room temperature.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid


10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

N-BUTYL ACETATE

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ORL</td>
<td>MUS</td>
<td>LD50</td>
<td>6 gm/kg</td>
</tr>
<tr>
<td>ORL</td>
<td>RAT</td>
<td>LD50</td>
<td>10768 mg/kg</td>
</tr>
</tbody>
</table>

XYLENE

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ORL</td>
<td>MUS</td>
<td>LD50</td>
<td>2119 mg/kg</td>
</tr>
<tr>
<td>ORL</td>
<td>RAT</td>
<td>LD50</td>
<td>4300 mg/kg</td>
</tr>
<tr>
<td>SCU</td>
<td>RAT</td>
<td>LD50</td>
<td>1700 mg/kg</td>
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</tbody>
</table>

LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ORL</td>
<td>RAT</td>
<td>LD50</td>
<td>8400 mg/kg</td>
</tr>
</tbody>
</table>

2-METHOXY-1-METHYLETHYL ACETATE

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>IPR</td>
<td>MUS</td>
<td>LD50</td>
<td>750 mg/kg</td>
</tr>
<tr>
<td>ORL</td>
<td>RAT</td>
<td>LD50</td>
<td>8532 mg/kg</td>
</tr>
</tbody>
</table>

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
**SAFETY DATA SHEET**

**ACRYL-HÄRTER MS 2:1 NORMAL**

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

### Section 12: Ecological information

#### 12.1. Toxicity

**Ecotoxicity values:** No data available.

#### 12.2. Persistence and degradability

**Persistence and degradability:** Biodegradable.

#### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

#### 12.4. Mobility in soil

**Mobility:** Readily absorbed into soil.

#### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

#### 12.6. Other adverse effects

**Other adverse effects:** Negligible ecotoxicity.

### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Waste code number:** 08 05 01

**Disposal of packaging:** Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

### Section 14: Transport information

#### 14.1. UN number

**UN number:** UN1263

#### 14.2. UN proper shipping name

**Shipping name:** PAINT

#### 14.3. Transport hazard class(es)

**Transport class:** 3

#### 14.4. Packing group

**Packing group:** III

#### 14.5. Environmental hazards

**Environmentally hazardous:** No

**Marine pollutant:** No

[cont...]
14.6. Special precautions for user

Tunnel code: D/E
Transport category: 3

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3:

EUH066: Repeated exposure may cause skin dryness or cracking.
H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

Legend to abbreviations:
PNEC = predicted no effect level
DNEL = derived no effect level
LD50 = median lethal dose
LC50 = median lethal concentration
EC50 = median effective concentration
IC50 = median inhibitory concentration
dw = dry weight
bw = body weight
cc = closed cup
oc = open cup
MUS = mouse
GPG = guinea pig
RBT = rabbit
HAM = hamster
HMN = human

[cont...]
MAM = mammal
PGN = pigeon
IVN = intravenous
SCU = subcutaneous
SKN = skin
DRM = dermal
OCC = ocular/corneal
PCP = phycico-chemical properties

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.
Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: ACRYL-HÄRTER MS 2:1 KURZ
Product code: I4

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

Use of substance / mixture: Surface coating for industrial or professional application. For information regarding additional possible application please email us or dial the indicated phone number as shown below. We will connect you with our responsible technical personnel.

1.3. Details of the supplier of the safety data sheet

Company name: AIRO CHEMIE
A. Schmiemann GmbH & Co KG
Carl-Leverkus Str. 27
D - 40764 Langenfeld
Deutschland
Tel: [49] 02173 8538-0
Fax: [49] 02173 8538-60
Email: labor@airo-chemie.com

1.4. Emergency telephone number

Emergency tel: 030-30686790

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Asp. Tox. 1: H304; Aquatic Chronic 3: H412; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H336

Most important adverse effects: Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Label elements:

Hazard statements: H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H336: May cause drowsiness or dizziness.
H412: Harmful to aquatic life with long lasting effects.
SAFETY DATA SHEET
ACRYL-HÄRTER MS 2:1 KURZ

Signal words: Danger

Hazard pictograms:
- GHS02: Flame
- GHS07: Exclamation mark
- GHS08: Health hazard

Precautionary statements:
- P102: Keep out of reach of children.
- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P241: Use explosion-proof electrical/ventilating/lighting equipment.
- P264: Wash hands thoroughly after handling.
- P243: Take precautionary measures against static discharge.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor./
- P302+352: IF ON SKIN: Wash with plenty of water/.
- P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P331: Do NOT induce vomiting.
- P333+313: If skin irritation or rash occurs: Get medical advice/attention.
- P370+378: In case of fire: Use alcohol-resistant foam to extinguish.
- P403+233: Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>28182-81-2</td>
<td>-</td>
<td>Skin Sens. 1: H317</td>
<td>30-50%</td>
</tr>
</tbody>
</table>

[cont...]
SAFETY DATA SHEET
ACRYL-HÄRTER MS 2:1 KURZ

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water.

Inhalation: Consult a doctor.

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

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: No symptoms.

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

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media


5.2. Special hazards arising from the substance or mixture


5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

[cont...]
Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Notify the police and fire brigade immediately. Eliminate all sources of ignition. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Smoking is forbidden. Use non-sparking tools. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

Suitable packaging: Coated steel.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

N-BUTYL ACETATE

Workplace exposure limits: Respirable dust

<table>
<thead>
<tr>
<th>State</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>724 mg/m3</td>
<td>966 mg/m3</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

[cont...]
SAFETY DATA SHEET
ACRYL-HÄRTER MS 2:1 KURZ

XYLENE

| UK   | 220 mg/m³ | 441 mg/m³ | - | - |

2-METHOXY-1-METHYLETHYL ACETATE

| UK   | 274 mg/m³ | 548 mg/m³ | - | - |

DNEL/PNEC Values

DNEL / PNEC  No data available.

8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

**Respiratory protection:** Respiratory protection not required.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Protective clothing.

Section 9: Physical and chemical properties

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

- **State:** Liquid
- **Colour:** Colourless
- **Solubility in water:** Not miscible
- **Also soluble in:** Most organic solvents.
- **Viscosity:** Non-viscous
- **Boiling point/range°C:** 127
- **Melting point/range°C:** n.v.
- **Flammability limits %:** lower: 1  upper: 7.6
- **Flash point°C:** 32
- **Part.coeff. n-octanol/water:** n.v.
- **Autoflammability°C:** 370
- **Vapour pressure:** 10.7 mbar
- **Relative density:** 0.965
- **pH:** n.a.
- **VOC g/l:** 602

**9.2. Other information**

**Other information:** No data available.

Section 10: Stability and reactivity

**10.1. Reactivity**

**Reactivity:** Stable under recommended transport or storage conditions.

**10.2. Chemical stability**

**Chemical stability:** Stable under normal conditions. Stable at room temperature.
10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid


10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

N-BUTYL ACETATE

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ORL</td>
<td>MUS</td>
<td>LD50</td>
<td>6 gm/kg</td>
</tr>
<tr>
<td>ORL</td>
<td>RAT</td>
<td>LD50</td>
<td>10768 mg/kg</td>
</tr>
</tbody>
</table>

XYLENE

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ORL</td>
<td>MUS</td>
<td>LD50</td>
<td>2119 mg/kg</td>
</tr>
<tr>
<td>ORL</td>
<td>RAT</td>
<td>LD50</td>
<td>4300 mg/kg</td>
</tr>
<tr>
<td>SCU</td>
<td>RAT</td>
<td>LD50</td>
<td>1700 mg/kg</td>
</tr>
</tbody>
</table>

2-METHOXY-1-METHYLETHYL ACETATE

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>IPR</td>
<td>MUS</td>
<td>LD50</td>
<td>750 mg/kg</td>
</tr>
<tr>
<td>ORL</td>
<td>RAT</td>
<td>LD50</td>
<td>8532 mg/kg</td>
</tr>
</tbody>
</table>

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: There may be irritation of the throat.
Inhalation: No symptoms.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.
SAFETY DATA SHEET
ACRYL-HÄRTER MS 2:1 KURZ

12.2. Persistence and degradability
Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential
Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil
Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment
PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects
Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods
Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.
Waste code number: 08 05 01
Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number
UN number: UN1263

14.2. UN proper shipping name
Shipping name: PAINT

14.3. Transport hazard class(es)
Transport class: 3

14.4. Packing group
Packing group: III

14.5. Environmental hazards
Environmentally hazardous: No  Marine pollutant: No

14.6. Special precautions for user
Special precautions: No special precautions.
Tunnel code: D/E
Transport category: 3
[cont...]
Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Section 16: Other information

Other information:

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3:

EUH066: Repeated exposure may cause skin dryness or cracking.
H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H312: Harmful in contact with skin.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H332: Harmful if inhaled.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H411: Toxic to aquatic life with long lasting effects.
H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer:
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.
SAFETY DATA SHEET
ACRYL-HÄRTER MS 2:1 EXTRA KURZ

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

1.1. Product identifier

Product name: ACRYL-HÄRTER MS 2:1 EXTRA KURZ
Product code: I9

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

Use of substance / mixture: Surface coating for industrial or professional application. For information regarding additional possible application please email us or dial the indicated phone number as shown below. We will connect you with our responsible technical personnel.

1.3. Details of the supplier of the safety data sheet

Company name: AIRO CHEMIE
A. Schmiemann GmbH & Co KG
Carl-Leverkus Str. 27
D - 40764 Langenfeld
Deutschland
Tel: [49] 02173 8538-0
Fax: [49] 02173 8538-60
Email: labor@airo-chemie.com

1.4. Emergency telephone number

Emergency tel: 030-30686790

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: STOT SE 3: H336; Eye Irrit. 2: H319; Flam. Liq. 2: H225; Skin Sens. 1: H317

Most important adverse effects: Highly flammable liquid and vapour. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness.

2.2. Label elements

Label elements:
Hazard statements:
H225: Highly flammable liquid and vapour.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.

Signal words:
Danger

Hazard pictograms:
GHS02: Flame
GHS07: Exclamation mark
Precautionary statements:
P102: Keep out of reach of children.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243: Take precautionary measures against static discharge.
P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P312: Call a POISON CENTER/doctor//if you feel unwell.
P370+378: In case of fire: Use alcohol-resistant foam to extinguish.
P403+233: Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

HEXAMETHYLEN-1,6-DIISOCYANAT HOMOPOLYMER

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>28182-81-2</td>
<td>-</td>
<td>Skin Sens. 1: H317</td>
<td>30-50%</td>
</tr>
</tbody>
</table>

ETHYL ACETATE

<table>
<thead>
<tr>
<th></th>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>205-500-4</td>
<td>141-78-6</td>
<td>-</td>
<td>Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066</td>
<td>30-50%</td>
</tr>
</tbody>
</table>

N-BUTYL ACETATE

<table>
<thead>
<tr>
<th></th>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>204-658-1</td>
<td>123-86-4</td>
<td>-</td>
<td>Flam. Liq. 3: H226; STOT SE 3: H336; -: EUH066</td>
<td>10-30%</td>
</tr>
</tbody>
</table>

ISOPHORONDIISOCYANAT-HOMOPOLYMER

<table>
<thead>
<tr>
<th></th>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>931-312-3</td>
<td>53880-05-0</td>
<td>-</td>
<td>Skin Sens. 1B: H317; STOT SE 3: H335</td>
<td>1-10%</td>
</tr>
</tbody>
</table>

LOW BOILING POINT NAPTHA - UNSPECIFIED - SOLVENT NAPTHA (PETROLEUM), LIGHT AROM.

<table>
<thead>
<tr>
<th></th>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>265-199-0</td>
<td>64742-95-6</td>
<td>-</td>
<td>Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H335; Aquatic Chronic 2: H411</td>
<td>1-10%</td>
</tr>
</tbody>
</table>

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.
**SAFETY DATA SHEET**

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Ingestion: Wash out mouth with water. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

<table>
<thead>
<tr>
<th>Contact Type</th>
<th>Symptoms Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin contact</td>
<td>There may be irritation and redness at the site of contact.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>There may be irritation and redness. The eyes may water profusely.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>There may be soreness and redness of the mouth and throat.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.</td>
</tr>
</tbody>
</table>

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

Immediate / special treatment: Eye bathing equipment should be available on the premises.

### Section 5: Fire-fighting measures

#### 5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

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

Exposure hazards: In combustion emits toxic fumes.

#### 5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

### Section 6: Accidental release measures

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

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

#### 6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

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

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

#### 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

[cont...]
Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Coated steel.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

ETHYL ACETATE

Workplace exposure limits: Respirable dust

<table>
<thead>
<tr>
<th>State</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>200 ppm</td>
<td>400 ppm</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

N-BUTYL ACETATE

<table>
<thead>
<tr>
<th>State</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
<th>8 hour TWA</th>
<th>15 min. STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>UK</td>
<td>724 mg/m3</td>
<td>966 mg/m3</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

DNEL/PNEC Values

DNEL / PNEC: No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Aromatic

Solubility in water: Not miscible

Also soluble in: Most organic solvents.

Viscosity: Non-viscous
9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

**ETHYL ACETATE**

<table>
<thead>
<tr>
<th></th>
<th>MUS</th>
<th>LD50</th>
<th>4100</th>
<th>mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>ORL</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ORL</td>
<td>RAT</td>
<td>LD50</td>
<td>5620</td>
<td>mg/kg</td>
</tr>
<tr>
<td>SCU</td>
<td>RAT</td>
<td>LDLO</td>
<td>5</td>
<td>gm/kg</td>
</tr>
</tbody>
</table>

[cont...]
SAFETY DATA SHEET
ACRYL-HÄRTER MS 2:1 EXTRA KURZ

N-BUTYL ACETATE

<table>
<thead>
<tr>
<th></th>
<th>MUS</th>
<th>LD50</th>
<th></th>
<th>ORL</th>
<th>RAT</th>
<th>LD50</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>6 gm/kg</td>
<td></td>
<td></td>
<td>10768 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

LOW BOILING POINT NAPHTHA - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.

<table>
<thead>
<tr>
<th></th>
<th>RAT</th>
<th>LD50</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>8400 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Waste code number: 08 05 01

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.
Section 14: Transport information

14.1. UN number

UN number: UN1263

14.2. UN proper shipping name

Shipping name: PAINT

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No  Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.
Tunnel code: D/E
Transport category: 2

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

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H336: May cause drowsiness or dizziness.
H411: Toxic to aquatic life with long lasting effects.

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