

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Screen**

Print date: 11.01.2017

Product code: 132

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Screen

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

Reserved for industrial and professional use.

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

|                         |                      |                             |
|-------------------------|----------------------|-----------------------------|
| Company name:           | ITW LLC & Co. KG     |                             |
| Street:                 | Mühlackerstrasse 149 |                             |
| Place:                  | D-75417 Mühlacker    |                             |
| Telephone:              | ++49(0)7041-96340    | Telefax: ++49(0)7041-963429 |
| e-mail:                 | info@itwcp.de        |                             |
| Internet:               | www.itwcp.de         |                             |
| Responsible Department: | Produktsicherheit    |                             |

**1.4. Emergency telephone**

++49(0)7041-96340

**number:**

Mo. - Do. 8.00 - 16.30 Fr. 8.00 - 14.00

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Aerosol: Aerosol 1

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

**Precautionary statements**

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P251 Do not pierce or burn, even after use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

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#### Hazardous components

| CAS No   | Chemical name   |              |          | Quantity |
|----------|---|--------------|----------|----------|
|          | EC No   | Index No     | REACH No |          |
|          | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                 |              |          |          |
| 106-97-8 | butane  |              |          | <10%     |
|          | 203-448-7   | 601-004-00-0 |          |          |
|          | Flam. Gas 1; H220   |              |          |          |
| 67-63-0  | propan-2-ol; isopropyl alcohol; isopropanol   |              |          | <10%     |
|          | 200-661-7   | 603-117-00-0 |          |          |
|          | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336   |              |          |          |
| 107-98-2 | 1-methoxy-2-propanol; monopropylene glycol methyl ether   |              |          | 1-10%    |
|          | 203-539-1   | 603-064-00-3 |          |          |
|          | Flam. Liq. 3, STOT SE 3; H226 H336  |              |          |          |
| 74-98-6  | propane   |              |          | <10%     |
|          | 200-827-9   | 601-003-00-5 |          |          |
|          | Flam. Gas 1; H220   |              |          |          |
| 110-91-8 | morpholine  |              |          | <1%      |
|          | 203-815-1   | 613-028-00-9 |          |          |
|          | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B; H226 H332 H312 H302 H314 |              |          |          |
| 100-51-6 | benzyl alcohol  |              |          | <1%      |
|          | 202-859-9   | 603-057-00-5 |          |          |
|          | Acute Tox. 4, Acute Tox. 4; H332 H302   |              |          |          |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.

#### After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

#### After ingestion

If swallowed, immediately drink: Water.

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

No data available

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

No data available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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**Suitable extinguishing media**Carbon dioxide (CO<sub>2</sub>). Foam. Extinguishing powder.**Unsuitable extinguishing media**

Water with tenside additive. Water.

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

Combustible. Vapours may form explosive mixtures with air. Heating causes rise in pressure with risk of bursting.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. Explosion hazard.

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

Ventilate affected area.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

**Advice on protection against fire and explosion**

Keep away from sources of ignition. - No smoking.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition. - No smoking.

**Advice on storage compatibility**

Do not store together with: Material, rich in oxygen, oxidizing.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

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#### Exposure limits (EH40)

| CAS No   | Substance            | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|----------|----------------------|-----|-------------------|-----------|---------------|--------|
| 107-98-2 | 1-Methoxypropan-2-ol | 100 | 375               |           | TWA (8 h)     | WEL    |
|          |                      | 150 | 560               |           | STEL (15 min) | WEL    |
| 106-97-8 | Butane               | 600 | 1450              |           | TWA (8 h)     | WEL    |
|          |                      | 750 | 1810              |           | STEL (15 min) | WEL    |
| 110-91-8 | Morpholine           | 10  | 36                |           | TWA (8 h)     | WEL    |
|          |                      | 20  | 72                |           | STEL (15 min) | WEL    |
| 67-63-0  | Propan-2-ol          | 400 | 999               |           | TWA (8 h)     | WEL    |
|          |                      | 500 | 1250              |           | STEL (15 min) | WEL    |

#### 8.2. Exposure controls



##### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

##### Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

##### Eye/face protection

Tightly sealed safety glasses.

##### Hand protection

DIN EN 374 Tested protective gloves are to be worn: Butyl rubber. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Skin protection

Protective clothing:

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

### SECTION 9: Physical and chemical properties

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

|                 |                |
|-----------------|----------------|
| Physical state: | Aerosol        |
| Colour:         | Foam.          |
| Odour:          | characteristic |

#### Test method

##### Changes in the physical state

|  |             |
|--|-------------|
| Initial boiling point and boiling range: | -0,5 °C     |
| Flash point:                             | <0°C °C     |
| Lower explosion limits:                  | 1,4 vol. %  |
| Upper explosion limits:                  | 13,1 vol. % |
| Ignition temperature:                    | 270 °C      |

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|                                |                        |
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| Vapour pressure:<br>(at 20 °C) | 2100 hPa               |
| Vapour pressure:<br>(at 50 °C) | 4900 hPa               |
| Density (at 20 °C):            | 0,84 g/cm <sup>3</sup> |

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available

#### 10.2. Chemical stability

No data available

#### 10.3. Possibility of hazardous reactions

No data available

#### 10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

#### 10.5. Incompatible materials

No data available

#### 10.6. Hazardous decomposition products

No data available

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity

| CAS No   | Chemical name   |                   |         |        |
|----------|---|-------------------|---------|--------|
|          | Exposure route  | Dose              | Species | Source |
| 106-97-8 | butane  |                   |         |        |
|          | inhalative (4 h) gas                                    | LC50 273000 ppm   | Rat     | GESTIS |
| 107-98-2 | 1-methoxy-2-propanol; monopropylene glycol methyl ether |                   |         |        |
|          | oral  | LD50 > 5000 mg/kg | Rat     | IUCLID |
|          | dermal  | LD50 11000 mg/kg  | Rabbit  |        |
| 110-91-8 | morpholine  |                   |         |        |
|          | oral  | ATE 500 mg/kg     |         |        |
|          | dermal  | ATE 1100 mg/kg    |         |        |
|          | inhalative gas  | ATE 4500 ppm      |         |        |
| 100-51-6 | benzyl alcohol  |                   |         |        |
|          | oral  | LD50 1230 mg/kg   | Rat     | GESTIS |
|          | inhalative gas  | ATE 4500 ppm      |         |        |

#### Irritation and corrosivity

Irritating to eyes. Vapours may cause drowsiness and dizziness.

#### Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

### SECTION 12: Ecological information

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#### 12.1. Toxicity

| CAS No   | Chemical name   |              |              |         |                           |
|----------|---|--------------|--------------|---------|---------------------------|
|          | Aquatic toxicity  | Dose         | [h]   [d]    | Species | Source                    |
| 107-98-2 | 1-methoxy-2-propanol; monopropylene glycol methyl ether |              |              |         |                           |
|          | Acute fish toxicity                                     | LC50<br>mg/l | 4600 - 10000 | 96 h    | Leuciscus idus<br>IUCLID  |
|          | Acute algae toxicity                                    | ErC50        | > 1000 mg/l  | 72 h    | Selenastrum capricornutum |
|          | Acute crustacea toxicity                                | EC50         | > 500 mg/l   | 48 h    | Daphnia magna<br>IUCLID   |

#### 12.3. Bioaccumulative potential

##### Partition coefficient n-octanol/water

| CAS No   | Chemical name   | Log Pow |
|----------|---|---------|
| 106-97-8 | butane  | 2,89    |
| 107-98-2 | 1-methoxy-2-propanol; monopropylene glycol methyl ether | -0,437  |
| 74-98-6  | propane   | 2,36    |
| 100-51-6 | benzyl alcohol  | 1,05    |

#### Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Advice on disposal

Dispose of waste according to applicable legislation.

##### Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances  
Classified as hazardous waste.

##### Waste disposal number of contaminated packaging

150104 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); metallic packaging

##### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

**14.1. UN number:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
 Hazard label: 2.1



Classification code: 5F

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Special Provisions: 190 327 625  
Limited quantity: 1 L  
Transport category: 2  
Tunnel restriction code: D

**Other applicable information (land transport)**

E0

**Inland waterways transport (ADN)**

**14.1. UN number:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
Hazard label: 2.1



Classification code: 5F  
Special Provisions: 190 327 344 625  
Limited quantity: 1 L

**Other applicable information (inland waterways transport)**

E0

**Marine transport (IMDG)**

**14.1. UN number:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2  
**14.4. Packing group:** -  
Hazard label: 2, see SP63

Special Provisions: 63, 190, 277, 327, 344, 959  
Limited quantity: See SP277  
EmS: F-D, S-U

**Other applicable information (marine transport)**

E0

**Air transport (ICAO)**

**14.1. UN number:** UN1950  
**14.2. UN proper shipping name:** AEROSOLS, flammable  
**14.3. Transport hazard class(es):** 2.1  
Hazard label: 2.1



Special Provisions: A145 A167  
Limited quantity Passenger: 30 kg G  
IATA-packing instructions - Passenger: 203  
IATA-max. quantity - Passenger: 75 kg  
IATA-packing instructions - Cargo: 203  
IATA-max. quantity - Cargo: 150 kg

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**Other applicable information (air transport)**

E0

: Y203

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2004/42/EC (VOC): 40,86 % (343,224 g/l)

**National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**SECTION 16: Other information****Relevant H and EUH statements (number and full text)**

|      |   |
|------|---|
| H220 | Extremely flammable gas.                    |
| H222 | Extremely flammable aerosol.                |
| H225 | Highly flammable liquid and vapour.         |
| H226 | Flammable liquid and vapour.                |
| H229 | Pressurised container: May burst if heated. |
| H302 | Harmful if swallowed.                       |
| H312 | Harmful in contact with skin.               |
| H314 | Causes severe skin burns and eye damage.    |
| H319 | Causes serious eye irritation.              |
| H332 | Harmful if inhaled.                         |
| H336 | May cause drowsiness or dizziness.          |

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*