



# Material Safety Data Sheet

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## 1. Product & Company Identification

<b>Product:</b>	Schraubensicherung, mittelfest
<b>Manufacturer:</b>	Conrad Electronic SE
<b>Address:</b>	Klaus-Conrad-Str. 1, D-92240 Hirschau
<b>Telephone:</b>	+49 (0) 9604 / 40 - 8988
<b>Date of issue:</b>	01.08.2018

### 1.1 Product identifier

Trade name: Anaerobe Klebstoffe Kategorie A

This safety data sheet pertains to the following products:

02K22.F10/F250/F50: Schraubensicherung 02K22 niedrigfest, 10mL/250ml/50ml

02K41.F250/F50: Schraubensicherung 02K41 mittelfest, 250ml/50ml

02K42.F250/F50: Schraubensicherung 02K42 mittelfest, 250ml/50ml

02K43.F10/F250/F50: Schraubensicherung 02K43 mittelfest, 10ml/250ml/50ml

02K45.F250/F50: Schraubensicherung 02K45 mittelfest, 250ml/50ml

02K95.F250/F50: Schraubensicherung 02K95, 250ml/50ml

05K11.T250/Z50: Rohrgewindedichtung 05K11 niedrigfest 250ml/50ml

05K18.T250/Z50: Flächendichtung 05K18 hochfest, 250ml/50ml

05K42.F10/F250/F50/Z50: Hydraulikdichtung 05K42 mittelfest, 10/250ml/50ml

05K72.T250/Z50: Rohrgewindedichtung 05K72 niedrigfest, 250ml/50ml

05K73.T250/Z50: Flächendichtung 05K73 niedrigfest, 250ml/50ml

05K74.T250/Z50: Flächendichtung 05K74 mittelfest, 250ml/50ml

05K77.T250/Z50: Rohrgewindedichtung 05K77 niedrigfest, 250ml/50ml

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

General use: Anaerobic sealants and adhesives



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### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Skin Irrit. 2; H315 Causes skin irritation.

Eye Irrit. 2; H319 Causes serious eye irritation.

Skin Sens. 1; H317 May cause an allergic skin reaction.

STOT SE 3; H335 May cause respiratory irritation.

#### 2.2 Label elements

Labelling (CLP)

#### 2.2 Label elements Labelling (CLP)



Signal word: **Warning**

Hazard statements:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements:

P102 Keep out of reach of children.

P261 Avoid breathing vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water/soap.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P405 Store locked up.

P501 Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling:

Contains: Methacrylic acid, monoester with propane-1,2-diol; Acrylic acid and Cumene hydroperoxide



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### 2.3 Other hazards

People who suffer from skins problems, asthma, allergies, chronic or recurring respiratory illnesses must not be deployed in processes, which use this substance.

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

## 3. Composition / information on ingredients

### 3.1 Substances:

Not applicable

### 3.2 Mixtures

Chemical characterisation: Methacrylate-based adhesive.

Ingredient	Designation	Content	Classification
EC No. 248-666-3 CAS 27813-02-1	Methacrylic acid, monoester with propane-1,2-diol	15 - 20 %	Eye Irrit. 2; H319. Skin Sens. 1; H317.
EC No. 201-177-9 CAS 79-10-7	Acrylic acid	< 3 %	Flam. Liq. 3; H226. Acute Tox. 4; H302. Acute Tox. 4; H312. Acute Tox. 4; H332. Skin Corr. 1A; H314. Aquatic Acute 1; H400.
EC No. 201-254-7 CAS 80-15-9	Cumene hydroperoxide	< 2.5 %	Org. Perox. EF; H242. Acute Tox. 4; H302. Acute Tox. 4; H312. Acute Tox. 3; H331. Skin Corr. 1B; H314. STOT RE 2; H373. Aquatic Chronic 2; H411.
EC No. 210-199-8 CAS 609-72-3	N,N-Dimethyl-otoluidine	< 1 %	Acute Tox. 3; H301. Acute Tox. 3; H311. Acute Tox. 3; H331. STOT RE 2; H373. Aquatic Chronic 3; H412.

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



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### **4. First aid measures**

#### **4.1 Description of first aid measures**

General information: Take off immediately all contaminated clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air. Seek medical aid in case of troubles.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently seek the immediate attention of an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult physician.

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

May cause an allergic skin reaction. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

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

Treat symptomatically.

### **5. Firefighting measures**

#### **5.1 Extinguishing media**

Suitable extinguishing media: Water spray jet, extinguishing powder, foam, carbon dioxide

Extinguishing media which must not be used for safety measures: full water jet

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

In case of fire may be liberated: Smoke, nitrogen oxides (NO<sub>x</sub>), carbon monoxide and carbon dioxide.

#### **5.3 Advice for firefighters**

Special protective equipment for firefighters: Wear a self-contained breathing apparatus and chemical protective clothing.

#### **Additional information:**

Hazchem-Code: -

Cool endangered containers with water jetspray. Do not allow fire water to penetrate into surface or ground water.



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### 6. Accidental release measures

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

Provide adequate ventilation. Avoid contact with skin, eyes, and clothing. Avoid breathing vapours/spray. Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse. Keep unprotected people away.

#### 6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal. Special waste. Clean contaminated area with soap and water. Clean the floor and all object contaminated by this material.

Additional information: Special danger of slipping by leaking/spilling product.

#### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

### 7. Handling and storage

#### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid contact with skin, eyes, and clothing. Avoid breathing vapours/spray. Wear appropriate protective equipment. Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Work place should be equipped with a shower and an eye rinsing apparatus.

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

Requirements for storerooms and containers: Store container tightly closed in a dry area. Protect from moisture contamination. Protect from exposure to heat, direct sunlight, and cold. Keep only in the original container. Do not return unused portions of product to original container.

Hints on joint storage: Do not store together with oxidizing agents.

Keep away from food, drink and animal feedingstuffs.

#### 7.3 Specific end use(s)

No information available.

### 8. Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
79-10-7	Acrylic acid	Europe: IOELV: STEL Europe: IOELV: TWA Great Britain: MEL/OES-STEL Great Britain: MEL/OES-TWA Ireland: 8 hours	59 mg/m <sup>3</sup> ; 20 ppm 29 mg/m <sup>3</sup> ; 10 ppm 60 mg/m <sup>3</sup> ; 20 ppm 30 mg/m <sup>3</sup> ; 10 ppm 6 mg/m <sup>3</sup> ; 2 ppm



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**DNEL/DMEL:** Information about Methacrylic acid, monoester with propane-1,2-diol:  
DNEL long-term, workers, inhalative, systemic: 14.7 mg/m<sup>3</sup>  
DNEL long-term, workers, dermal, systemic: 4.2 mg/kg bw/d  
DNEL long-term, consumers, inhalative, systemic: 8.8 mg/m<sup>3</sup>  
DNEL long-term, consumers, oral, systemic: 2.5 mg/kg bw/d  
DNEL long-term, consumers, dermal, systemic: 2.5 mg/kg

**PNEC:** Information about Methacrylic acid, monoester with propane-1,2-diol:  
PNEC water (freshwater): 0.904 mg/L  
PNEC water (marine water): 0.904 mg/L  
PNEC water (intermittent release): 0.972 mg/L  
PNEC sediment (freshwater): 6.28 mg/kg dw  
PNEC sediment (marine water): 6.28 mg/kg dw  
PNEC soil: 0.727 mg/kg dw

### 8.2 Exposure controls

If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

#### Personal protection equipment

Occupational exposure controls:

Respiratory protection:

Respiratory protection must be worn whenever the WEL levels have been exceeded. Use filter type AP-2/3 according to EN 14387. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Hand protection:

Protective gloves according to EN 374. Glove material: Butyl caoutchouc (butyl rubber) - Layer thickness: 0.5 mm

Fluororubber (Viton) - Layer thickness: 0.4 mm

Chloroprene rubber - Layer thickness: 0.5 mm

Breakthrough time: >480 min

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection:

Tightly sealed goggles according to EN 166.

Body protection:

Wear suitable protective clothing.

General protection and hygiene measures:

Take off immediately all contaminated clothing and wash it before reuse. Avoid breathing vapours/spray. Avoid contact with skin, eyes, and clothing. Preventive skin protection. When using do not eat or drink. Wash hands before breaks and after work. Work place should be equipped with a shower and an eye rinsing apparatus.



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### 9. Physical and chemical properties

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

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid
Colour:	Varying, depends on colouring
Odour:	Characteristic
Odour threshold:	No data available
pH value:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	No data available
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	No data available
Solubility:	No data available
Partition coefficient: n-octanol/water:	0.35 log P(o/w) (Acrylic acid) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
	0.97 log P(o/w) (Methacrylic acid, monoester with propane-1,2-diol) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
	2.16 (Cumene hydroperoxide) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	Product is not explosive.
Oxidizing characteristics:	Product has no oxidizing effect.

#### 9.2 Other information

Additional information: No data available



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### **10. Stability and reactivity**

#### **10.1 Reactivity**

Refer to section 10.3

#### **10.2 Chemical stability**

Stable under recommended storage conditions.

#### **10.3 Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

#### **10.4 Conditions to avoid**

Protect against direct sunlight. Keep away from heat.

#### **10.5 Incompatible materials**

Oxidizing agents, acids, alkalis

#### **10.6 Hazardous decomposition products**

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available

### **11. Toxicological information**

#### **11.1 Information on toxicological effects**

##### **Toxicological effects:**

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met. No toxicological data is available for the product as such. The statement is derived from the properties of the single components. ATE<sub>mix</sub> calculated: >2000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met. No toxicological data is available for the product as such. The statement is derived from the properties of the single components. ATE<sub>mix</sub> calculated: >2000 mg/kg

Acute toxicity (inhalative): Based on available data, the classification criteria are not met. No toxicological data is available for the product as such. The statement is derived from the properties of the single components. ATE<sub>mix</sub> calculated: >20 mg/L/4h

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Information about Methacrylic acid, monoester with propane-1,2-diol

in-vivo Micronucleus test: negative (OECD 474)

Information about Acrylic acid

in vivo mutagenicity negative (ECHA-Dossier)

Information about Cumene hydroperoxide

in vivo mutagenicity negative (ECHA-Dossier)





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

Information about Methacrylic acid, monoester with propane-1,2-diol

NOAEC => 2.05 mg/L (ECHA-Dossier)

Information about Acrylic acid

NOAEL => 10 mg/L (ECHA-Dossier)

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

Information about Methacrylic acid, monoester with propane-1,2-diol

NOAEL = 50 mg/kg/d (ECHA-Dossier)

Information about Acrylic acid

NOAEC = 0.075 mg/L (ECHA-Dossier)

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): STOT SE 3; H335 = May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): Based on available data, the classification criteria are not met.

Information about Methacrylic acid, monoester with propane-1,2-diol

NOAEL Rat, oral (90 d): 300 mg/kg/d (ECHA Dossier)

Information about Acrylic acid

NOAEL Rat, oral (90 d): 40 mg/kg (ECHA Dossier)

LOAEC Rat, inhalative (90 d): 0.015 mg/L (ECHA Dossier)

Information about N,N-Dimethyl-o-toluidine NOAEC Rat, inhalative: 31 mg/m<sup>3</sup> (ECHA Dossier)

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

### Other information:

Information about Methacrylic acid, monoester with propane-1,2-diol:

LD50 Rat, oral: >2000 mg/kg (OECD 401)

LD50 Rabbit, dermal: >5000 mg/kg

Information about Acrylic acid:

LD50 oral: 500 mg/kg (ATE)

LD50 Rabbit, dermal: > 294 mg/kg (RTECS)

LC50 Rat, inhalative (vapour): > 5.1 mg/L/4h (ECHA-Dossier)

LC50 inhalative (Aerosol): 1.5 mg/L (ATE)

Information about Cumene hydroperoxide:

LD50 oral, Rat: 382 mg/kg (IUCLID)

LD50 Rat, dermal: 500 mg/kg (RTECS)

LC50 Mouse, inhalative (vapour): 200 mg/L/4h (IUCLID)

LC50 inhalative (Aerosol): 0.5 mg/L (ATE)

Information about N,N-Dimethyl-o-toluidine:

LC50 oral: 100 mg/kg (ATE)

LC50 dermal: 300 mg/kg (ATE)

LC50 inhalative (vapour): 3 mg/L (ATE)

LC50 inhalative (Aerosol): 0.5 mg/L (ATE)



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### 12. Ecological information

#### 12.1 Toxicity

##### Aquatic toxicity:

Information about Methacrylic acid, monoester with propane-1,2-diol

Fish toxicity:

LC50 Scophthalmus Maximus: 883 mg/L/96h

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): > 143 mg/L/48h (ECHA Dossier, read across)

Information about Acrylic acid:

Fish toxicity:

LC50 Onchorhynchus mykiss: 27 mg/L/96h (ECHA Dossier, read across)

Algae toxicity:

ErC50 Desmodesmus subspicatus: 0.13 mg/L/72h

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 95 mg/L/48h (ECHA Dossier, read across)

Information about Cumene hydroperoxide:

Fish toxicity:

LC50 Onchorhynchus mykiss: 3.9 mg/L/96h (ECHA Dossier, read across)

Algae toxicity:

ErC50 Desmodesmus subspicatus: 3.1 mg/L/72h

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 18.84 mg/L/48h (ECHA Dossier, read across)

#### 12.2 Persistence and degradability

##### Further details:

Information about Methacrylic acid, monoester with propane-1,2-diol

Biodegradation: > 81 %/28 d. (OECD 301C) (readily biodegradable (according to OECD criteria))

Information about Acrylic acid

Biodegradation: 80 %/28 d. (OECD 301D) (readily biodegradable (according to OECD criteria))

Information about Cumene hydroperoxide

Biodegradation: 3 %/28 d. (OECD 301B) (not readily biodegradable (according to OECD criteria))

#### 12.3 Bioaccumulative potential

Information about Acrylic acid: Partition coefficient: n-octanol/water (log pOW) / Method: 0.35

Information about Cumene hydroperoxide: Partition coefficient: n-octanol/water (log pOW) / Method: 2.16

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

0.35 log P(o/w) (Acrylic acid)

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

0.97 log P(o/w) (Methacrylic acid, monoester with propane-1,2-diol)

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

2.16 (Cumene hydroperoxide)

Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.



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### **12.4 Mobility in soil**

No data available

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

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

### **12.6 Other adverse effects**

General information: Do not allow to penetrate into soil, waterbodies or drains.

## **13. Disposal considerations**

### **13.1 Waste treatment methods**

#### **Product**

Waste key number: 08 04 09\* = Waste adhesives and sealants containing organic solvents or other dangerous substances.

MFSU = manufacture, formulation, supply and use

\* = Evidence for disposal must be provided.

Recommendation: Special waste. Incinerate according to applicable local, state and federal regulations.

#### **Contaminated packaging**

Waste key number: 15 01 10\* = packaging containing residues of or contaminated by dangerous substances  
\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.

Handle contaminated packages in the same way as the substance itself.



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### 14. Transport information

#### 14.1 UN number

ADR/RID, IMDG, IATA-DGR: not applicable

#### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: not restricted

#### 14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR: not applicable

#### 14.4 Packing group

ADR/RID, IMDG, IATA-DGR: not applicable

#### 14.5 Environmental hazards

Marine pollutant: no

#### 14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available



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### 15. Regulatory information

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

##### National regulations - Great Britain

Hazchem-Code: -

No data available

##### National regulations - EC member states

Labelling of packaging with <= 125mL content



Signal word: **Warning**

Hazard statements: H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

Precautionary statements: P102 Keep out of reach of children.

P261 Avoid breathing vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water/soap.

P312 Call a POISON CENTER/doctor if you feel unwell.

P405 Store locked up.

P501 Dispose of contents/container to hazardous or special waste collection point.

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3

#### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.



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### **16. Other information**

#### **Further information**

Wording of the H-phrases under paragraph 2 and 3:

- H226 = Flammable liquid and vapour.
- H242 = Heating may cause a fire.
- H301 = Toxic if swallowed.
- H302 = Harmful if swallowed.
- H311 = Toxic in contact with skin.
- H312 = Harmful in contact with skin.
- H314 = Causes severe skin burns and eye damage.
- H315 = Causes skin irritation.
- H317 = May cause an allergic skin reaction.
- H319 = Causes serious eye irritation.
- H331 = Toxic if inhaled.
- H332 = Harmful if inhaled.
- H335 = May cause respiratory irritation.
- H373 = May cause damage to organs through prolonged or repeated exposure.
- H400 = Very toxic to aquatic life.
- H411 = Toxic to aquatic life with long lasting effects.
- H412 = Harmful to aquatic life with long lasting effects.

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.