

**Safety data sheet pursuant to ordinance
(EC) No. 453/2010
(EC) No. 1907/2006 (REACH)**

Print date: 02/03/2016

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Revised:11.08.2015

Cimco-Werkzeugfabrik
Carl Jul. Müller GmbH & Co. KG

1. DESIGNATION OF THE MATERIAL OR MIXTURE AND COMPANY NAME

1.1 Product identifier

Product name 1 KV two component casting resin, component POLYOL Art. No. **18 4680, 18 4682, 184770**

Trade name 1 KV two component casting resin, component POLYOL Art. No. **18 4680, 18 4682, 184770**

CAS No.

EC No.

1.2 Relevant identified use of material or mixture and uses that are not advisable

Recommended
limitations of the
application

Use of the
material/mixture Polyol component for manufacturing polyurethanes.

1.3 Details on the supplier who is making the safety data sheet available

Company Cimco Werkzeugfabrik Carl Jul. Müller GmbH & Co. KG
Hohenhagener Straße 1 - 5
D-42855 Remscheid, Germany
+49 (0) 21913718-01 Fax: +49 (0) 21913718-86

1.4 Emergency number **Emergency CONTACT (24-Hour-Number)**
GBK GmbH +49 (0)6132-84463

2. POSSIBLE HAZARDS

2.1 Classification of the material

- **Classification in accordance with the directive (EC) No. 1272/2008 [CLP/GHS]**
No classification according to the regulation.

2.2 Label elements

- **Labelling according to directive (EC) No. 1272/2008 [CLP/GHS]**
- No classification according to the regulation.

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2.3 Other dangers

No information is available.

3. COMPOSITION / INFORMATION ON COMPONENTS

Product type:

Mixture: Polyurethane casting resin component on the basis of branched polyalcohols with ester and ether groups.

Hazardous constituents: No hazardous constituents according to REACH regulation (EC) No. 1907/2006.

Candidate list of substances of very high concern for authorisation: This product contains no substances of very high concern (REACH regulation (EC) No. 1907/2006, Article 57).

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information

Remove dirty, saturated clothing.

After inhaling

Move the affected person into the fresh air and place in a resting position.
In the event of complaints, seek medical assistance.

After skin contact

In the event of skin contact, wash off carefully with soap and lots of water. In the event of skin irritation, consult a doctor.

After swallowing

Do not induce vomiting.
Rinse mouth thoroughly.
Seek medical assistance.

After eye contact

Rinse eyes thoroughly with eyelids open (for at least 10 minutes) with lukewarm water if possible. Consult eye specialist.

4.2 Important symptoms and effects which are acute or occur with a delay

No information is available.

4.3 Indication of any immediate medical attention and special treatment needed

No information is available.

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5. FIREFIGHTING MEASURES

5.1 Extinguishing agents

Suitable extinguishing agents Foam, extinguishing powder, carbon dioxide, in the event of large fires also a jet of water

Unsuitable extinguishing agents Direct water jet

5.2 Particular risks associated with the material or mixture

In the event of a fire, carbon dioxide, carbon monoxide, nitrous oxides and traces of hydrogen cyanide (prussic acid) are formed. Do not inhale gases from explosions and fire.

5.3 Information on fire fighting

Special protective equipment for firefighting:

In the presence of combustion or carbonization gases, any firefighting, rescue and clearing up activities should be undertaken only with heavy-duty respiratory protection and tight-sealing chemical protective overalls.

Further information:

Contaminated quenching water must not penetrate the ground, get into ground water or surface water.

6. MEASURES IN THE EVENT OF ACCIDENTAL RELEASE

6.1 Person-related safety precautions, protective equipment and procedures to be followed in emergencies

Ensure there is sufficient ventilation.
Use personal protective clothing.
Keep anyone who is not involved away.

6.2 Environmental protection measures

Do not allow it to get into ground water or surface water, or the ground.

6.3 Methods and material for containment and cleaning

Soak up with liquid absorbing material (e.g. chemical binders, sand, peat, sawdust) and store in closed containers.

6.4 References to other sections

Disposal: see section 13

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7. HANDLING AND STORAGE

7.1 Safety measures for safe handling

Information on safe handling

The usual safety measures for handling chemicals needs to be adhered to.

At workplaces or in parts of the plant where aerosols and/or vapour could be formed in high concentrations (e.g. pressure relief, mould ventilation, blowing through mixing bodies with compressed air), exceeding the work-hygienic limit values must be prevented with selective air extraction. The air needs to be moved away from people. The efficacy of systems needs to be checked at regular intervals.

As a general rule, precautions should be taken against electrostatic charging, as is possible depending on the apparatus, handling, and packaging the product.

General protection measures

Avoid contact with skin and eyes as well as inhalation of mist and vapours at all costs. Store separately from foodstuffs, drink and tobacco.

Keep soiled work clothing separately. Remove dirty, saturated clothing immediately. Decontaminate, destroy and dispose of soiled work clothing.

Hygiene measures

Do not smoke, eat, drink or sniff while working.
Wash hands before breaks and after finishing work.

7.2 Conditions for safe storage taking incompatibilities into consideration

Storage requirements

Keep container dry and tightly sealed.

Information on storage with other products

Further information on storage conditions

Avoid heating above 50 °C and cooling below 0°C.

Storage class

10

7.3 Specific end use

See section 1.2

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8. LIMITATION AND MONITORING OF EXPOSURE / PERSONAL PROTECTIVE EQUIPMENT

8.1 Limit values

No information on workplace limit values required according to regulation 2006/121/EC.

For technical protective measures to limit exposure, see also section 7 "Handling and storage".

8.2 Limiting and monitoring exposure

Personal protective equipment

General protective and hygiene measures

The usual regulations for handling chemicals needs to be adhered to.

Do not breathe in dust/smoke/mist. Keep away from food, drink and animal feed. Do not smoke, eat or drink while working. Avoid contact with the eyes and skin. Wash hands before a break and after finishing work.

Respiratory protection

No necessary under normal conditions.

Hand protection

Safety gloves are recommended.

In the event of prolonged contact: nitrile rubber dispose of after contamination. In the event of brief contact (e.g. during mixing, as spray protection): single-use gloves made of PE or latex. Dispose of these after use.

Eye protection

Wear protective glasses / face protection.

Personal protection

Protective workwear

Limiting and monitoring environmental exposure

Ensure good room ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on the basic physical and chemical properties

Form	liquid
Colour	light brown
Odour	almost odourless
Steam pressure	at 20°C: < 3 hPa
Relative density	approx. 1.19 g/cm ³

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Boiling point	> 250 °C
Melting point / Freezing point	- na -
Explosive properties	- na -
Self-ignition temperature	- na -
Ignition point	> 130 °C
Flammability	- na -
Oxidizing properties	- na -
Solubility in / miscibility with	- na -
Ignition temperature	> 300°C
Solvent content	- na -
Solids content	- na -

9.2 Other information

No information is available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No information is available.

10.2 Chemical stability

Stable when stored and handled normally.

10.3 Possible hazardous reactions

No hazardous reaction when used as intended.

10.4 Conditions to be avoided

Heat, open flames, and other ignition sources.

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10.5 Incompatible materials

Strong oxidizing agents and acids.

10.6 Dangerous decomposition processes

No hazardous decomposition products when stored and handled correctly.

11. TOXICOLOGICAL INFORMATION

Toxicological tests on the product are not available.

For risk assessment, the most important data for the materials and mixtures used in this mixture are given.

11.1 Information on toxicological effects

	Value/Evaluation	Species	Method	Note
LD50 acute oral	> 5000 mg/kg	Rat		
LD50 acute dermal	> 2000 mg/kg	Rat		
LC50 acute for inhalation	no relevant route of exposure			
Skin irritation	slightly irritating	Rabbit		no skin irritation
Irritation of mucous membranes	slightly irritating	Rabbit		no eye irritation
Sensitisation	not sensitising	Rabbit		does not cause skin sensitisation

CMR evaluation:

Carcinogenicity: If the available data base is used as a basis, then the classification criteria are not met.

Mutagenicity: If the available data base is used as a basis, then the classification criteria are not met.

Teragenicity: no data available.

Reproduction toxicity: no data available.

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12. ENVIRONMENTAL INFORMATION

12.1 Toxicity

	Value/Evaluation	Species	Method	Note
Fish	LC50 > 100 mg/l (96 h)	Danio rerio	OECD test guideline 203	
Water fleas (daphnia)	EC50 > 1000 mg/l (48 h)	Daphnia magna	OECD test guideline 202	
Bacteria	EC50 > 1000 mg/l	Activated sludge	OECD test guideline 209	

12.2 Persistence and degradability

The product is expected to only degrade slowly in the environment.

12.3 Bio accumulation potential

No information is available.

12.4 Mobility in the soil

No information is available.

12.5 Results of PBT and vPvB assessment

The product does not meet the criteria for classification as PBT or vPvB.

12.6. Other harmful effects

Due to the physical properties, the product is separated out in every filtration or sedimentation process. In a cured state (after reacting with the curing agent), it is insoluble in water. Do not allow it to get into ground water or surface water, or the ground.

13. INFORMATION ON DISPOSAL

Recommendation	Dispose of taking all applicable international, national, and local law, regulations, and provisions into consideration.
Product	If disposed of within the EU, apply the respective applicable waste code according to the European Waste Code EWC (Germany: Directive on the List of Waste Materials (AVV)). To assign the industry and product-specific AVV key code, we recommend clarifying the details with the responsible waste disposal agent.

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Waste code 07 02 08 other reactions and distillation residue
 07 02 13 plastic waste
 20 01 39 plastics
 15 01 02 packaging made of plastic
 15 01 04 Packaging made of metal

Waste marked with an asterisk (*) are classed as hazardous waste according to Directive 2008/98/EC on hazardous waste.

Unclean packaging Dispose of empty containers after rendering the product residue on the walls harmless (e.g. through a reaction with an equivalent quantity of curing agent).
 Packaging which has been emptied as well as possible and containers with cured residue are treated as trade waste similar to household waste. They can be sent for metal recycling directly via the scrap metal trade. Recycling must be carried out in accordance with national laws and environmental regulations.
 No disposal via the sewage system.

14. INFORMATION ON TRANSPORT

	ADR/RID	IMDG	IATA-DGR
14.1 UN number	Not hazardous goods	Not hazardous goods	Not hazardous goods
14.2 Proper UN shipping name	-	-	-
14.3 Transport hazard class	-	-	-
14.4 Packaging group	-	-	-
14.5 Environmental hazards	-	-	-

14.6 Special preventive measures for the user

Not hazardous goods to transport.
 Store separately from foodstuffs, drinks and tobacco, acids and bases.

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14.7 Bulk transport according to Appendix II of the MARPOL agreement 73/78 and according to the IBC code

No information is available.

15. STATUTORY REGULATIONS

15.1 Regulations on safety, health and environmental protection / specific legal regulations for the material or the mixture

Water hazard class 1 VwVwS Appendix 4
slightly water hazardous

15.2 Chemical safety assessment

No material safety assessment has been carried out for this material / this mixture (or its components respectively).

16. OTHER INFORMATION

Protective measures for handling freshly manufactured PUR moulds:

The surface of freshly manufactured polyurethane moulds made using this product where the surface is not coated surface could still contain traces of materials (e.g. raw materials and secondary products, catalysts, mould release agents) with hazardous properties - depending on the processing parameters during manufacture. Skin contact with these material traces must be avoided. For this reason, when releasing the mould and other handling of freshly made moulds, protective gloves should be worn, tested in accordance with DIN EN 374 (e.g. nitrile rubber ≥ 1.3 mm thick, break-through time ≥ 480 min. or after referring to the glove manufacturer, thinner gloves, taking the break-through times into account with shorter change intervals). Depending on the recipe and processing conditions, the requirements here can vary from those when handling the pure product. To protect other exposed skin, closed protective clothing is required.

Additional information

The information provided in this Safety Data Sheet is correct to the best of our knowledge and belief at the date of its revision. The information is to provide you with references for safely handling the product specified in this safety data sheet during storage, processing, transport, and disposal. The information is not transferrable to other products. If the product specified in this safety data sheet is mixed, blended or processed with other materials, or is subject to conditioning, then the information in this safety data sheet can not be directly assigned to the new material product in this manner, unless expressly stated otherwise here.