

**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:12.08.2015

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 CASTING RESIN Art. No. 18 4680, 18 4682, 184770
Trade name 1 KV two component casting resin, component CASTING RESIN 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 labelling requirements according to the regulation.

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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.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information	Remove dirty, saturated clothing.
After inhaling	Move person to the fresh air, keep them warm, allow them to rest. In the event of breathing difficulties, seek medical assistance.
After skin contact	In the event of skin contact, wash off carefully with soap and water. In the event of skin irritation, consult doctor.
After swallowing	Do not induce vomiting. Rinse mouth thoroughly with water. 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.

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

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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.

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

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

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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. Avoid contact with the eyes and skin.

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 breathing in vapour and mist. Change contaminated or saturated 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 tightly sealed in a cool, dry place.

Information on storage with other products

Further information on storage conditions

Avoid heating above 50 °C and cooling below 10°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.

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.

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

Wear suitable protective gloves if in contact with material for a long time. Disposing of the contaminated gloves is recommended.

If only in contact with the material for a short time, wear 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	< 3 hPa 20°C
Relative density	approx. 1.19 g/cm ³ 23°C
Boiling point	> 250 °C

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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

11.1 Information on toxicological effects

Toxicological tests on the product are not available. This information is derived from the materials and preparations used for making this preparation.

	Value/Evaluation	Species	Method	Note
LD50 acute oral	> 5000 mg/kg	Rat		
LD50 acute dermal	> 2000 mg/kg	Rat		
skin irritation	slightly irritating	Rabbit		
mucous membrane irritation	slightly irritating	Rabbit		
sensitisation	no skin sensitisation	Guinea pig		

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.

Teratogenicity: no data available.

Reproduction toxicity: no data available.

12. ENVIRONMENTAL INFORMATION

Ecotoxicological tests on the product have not been carried out.

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

12.1 Toxicity

	Value/Evaluation	Species	Method	Note
Fish	LC50 > 100 mg/l (96h)	Danio rerio	OECD test guideline 203	

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Bacteria	EC50 > 1000 mg/l	Activated sludge	OECD test guideline 209
Daphnia toxicity	EC > 100 mg/l (48h)	Daphnia magna	OECD test guideline 202

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

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

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.
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

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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	-	-	-
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.

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

Not applicable

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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.