

**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: 27.07.2015

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

## 1. DESIGNATION OF THE MATERIAL OR MIXTURE AND COMPANY NAME

### 1.1 Product identifier

**Product name** Soldering grease Art. No. 150230 / 150232 / 150234  
**Trade name** Soldering grease Art. No. 150230 / 150232 / 150234  
**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      Soft soldering

### 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]**  
Skin Corr. 1B      H314  
Aquatic Chronic 2      H411

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## 2.2 Label elements

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



**GHS05**



**GHS09**

**Signal word:**

Hazard

**Hazard information:**

H314 Causes serious chemical burns to skin and serious eye damage.  
H411 Toxic for water organisms, with long-term effects.

**Safety information:**

P101 If medical attention is required, have packaging or identification label at hand.  
P102 Keep out of reach of children.  
P260 Do not breathe in mist or vapour.  
P273 Avoid releasing into the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P330 + P331 IF SWALLOWED: Rinse out mouth. Do NOT induce vomiting.  
P303 + P361 + P353 ON CONTACT WITH SKIN (or hair): Take off all contaminated, saturated clothing. Wash off / shower skin with water.  
P305 + P351 + P338 IN THE EVENT OF CONTACT WITH THE EYES: Rinse out carefully with water for several minutes. Remove any contact lenses potentially being worn if possible. Continue rinsing.  
P310 Immediately call POISON CONTROL CENTRE or call a doctor.  
P405 Keep it locked away.  
P501 Dispose of content/container in accordance with local / regional / national / international regulations.

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**2.3 Other dangers**

- **Results of the PBT and vPvB assessment**
- **PBT:** The materials in the mixture do not meet the PBT/vPvB criteria according to REACH, Appendix XIII.
- **vPvB:** not applicable

**3. COMPOSITION / INFORMATION ON COMPONENTS**

Constituents	EC No.	CAS No.	Concentrate [% by weight]
Zinc chloride	231-592-0	7646-85-7	5 - < 10 Acute Tox. 4;H302 Skin Corr. 1B;H314 Aquatic Acute 1;H400 Aquatic Chronic 1;H410
Ammonium chloride	235-186-4	12125-02-9	1 - < 3 Acute Tox. 4;H302 Eye Irrit. 2;H319

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#### 4. FIRST AID MEASURES

##### 4.1 Description of first aid measures

###### General information

Ensure that medical personnel are aware of the material involved and take precautionary measures. Wash contaminated clothing before wearing it again.

###### After inhaling

Move the affected person into the fresh air and place in a resting position.  
Immediately call a doctor or a poison control centre.

###### After skin contact

Remove dirty, saturated clothing immediately. Wash off/shower skin with water.  
Chemical burns need to be treated by a doctor. Immediately call a doctor or a poison control centre. With minor skin contact, avoid spreading the material on areas which are not affected.

###### After swallowing

Immediately call a doctor or a poison control centre. Rinse out mouth. DO NOT induce vomiting. If vomiting should occur, hold head downwards so that none of the stomach content gets into the lungs. Do not give mouth to mouth resuscitation if the affected person has ingested the substance. Start artificial respiration using a pocket mask which is fitted with a one-way valve or other medical breathing apparatus.

###### After eye contact

Immediately rinse eyes for 15 minutes with plenty of water. If applicable, remove contact lenses if it is easy to do so. Continue washing out. Immediately call a doctor or a poison control centre.

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

Corrosive effects. Can cause serious irritation or burns to eyes, skin, gastrointestinal tract and respiratory tract.

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

General support measures and symptomatic treatment are required. If breathing difficulties occur, apply oxygen therapy. Keep affected person warm. Continue to monitor affected person.

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#### 5. FIREFIGHTING MEASURES

##### 5.1 Extinguishing agents

**Suitable extinguishing agents** foam, dry powder, carbon dioxide, fine water spray

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**Unsuitable extinguishing agents** Direct water jet

## 5.2 Particular risks associated with the material or mixture

In the event of a fire, it is possible that hazardous gases may be formed.

## 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 protective clothing.

### Further information:

Cool containers exposed to heat with a fine water spray and remove them if this is possible without taking any risks. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## 6. MEASURES IN THE EVENT OF ACCIDENTAL RELEASE

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

Keep people who are not involved away. Wear suitable personal protective equipment. Only touch damaged containers or leaking material if you are wearing suitable protective clothing. Ensure suitable ventilation. If it is not possible to soak up large quantities of spilt material, the local authorities should be informed.

### 6.2 Environmental protection measures

Avoid releasing into the environment. If large quantities enter water or sewage system, inform the local responsible authorities. Avoid further leakage or spillage if this is possible without taking any risks. Do not contaminate water bodies. Avoid material entering the sewage system or waterways.

### 6.3 Methods and material for containment and cleaning

Large quantities escaped: Prevent the material flowing out if this is possible without any risk. If possible, create barrier around material and fill it into containers. Cover with plastic film to prevent spread. Collect with vermiculite, dry sand or earth and fill into containers. Do not allow to enter waterways, the sewage system, cellars or closed rooms.

Small escaped quantities: Wipe up with absorbent material (e.g. cloth, fleece). Thoroughly clean surfaces to remove contamination residue.

Never put product back into the original container for recycling.

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## 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

Do not breath in mist or vapour. This material must not come into contact with your eyes. This material must not come into contact with your skin. Avoid lengthy contact. This material must not come into contact with your clothing. Ensure sufficient ventilation.

Regularly wash work clothes and protective equipment to remove contamination.

Avoid releasing into the environment. Do not introduce into the sewage system.

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 sealed in original packaging.

The local authority regulations for storage of aerosol dispensers are to be observed.

Information on storage with other products

Further information on storage conditions

Keep away from heat and ignition sources.

Keep it locked away.

Store in a tightly sealed original container. Use a suitable container to avoid environmental contamination. Caution when handling and during storage.

Storage class

8B

### 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

#### Occupational exposure limit values

CAS No.	Designation	Type	[mg/m <sup>3</sup> ]	[ppm]	Peak limit	Note
7646-85-7	Zinc chloride	TWA	2			Inhalable fraction
			0.1			Alveolar fraction

### 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

If ventilation is inadequate, wear breathing apparatus.

Hand protection

Wear suitable chemical-resistant gloves.  
The recommendations only apply for product and the designated use.  
Particular working conditions, such as heat or mechanical stresses which deviate from test conditions could reduce the protective effect of the recommended glove

Eye protection

Wear chemical safety glasses and face protection.

Personal protection

Wear chemical resistant clothing.

Limiting and monitoring environmental exposure

Contain spillages and prevent release. Pay attention to national emissions regulations. If large quantities are released, the environmental protection officer must always be notified.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Form	paste
Colour	- na -
Odour	- na -
Steam pressure	omitted
Relative density	0.90 g/cm <sup>3</sup>
Boiling point	- na -
Melting point / Freezing point	- na -
Explosive properties	- na -
Self-ignition temperature	- na -
Ignition point	omitted
Flammability	- na -
Oxidizing properties	- na -
Solubility in / miscibility with	- na -
Ignition temperature	- na -
Solvent content	- na -
Solids content	- na -

### 9.2 Other information

No information is available.



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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Strong oxidizing agent.

### 10.2 Chemical stability

Under normal conditions, the material is stable.

### 10.3 Possible hazardous reactions

No known hazardous reactions if used as intended.

### 10.4 Conditions to be avoided

Contact with incompatible materials.

### 10.5 Incompatible materials

Strong oxidizing agent.

### 10.6 Dangerous decomposition processes

Hydrochloric acid.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

No information is available.

## 12. ENVIRONMENTAL INFORMATION

### 12.1 Toxicity

	Value/Evaluation	Species	Method	Note
Fish	LC50 222 – 290 mg/l (96 h)	Fathead minnow		Ammonium chloride
Fish	LC50 0.083 – 0.139 mg/l (96 h)	Donaldson trout		Zinc chloride

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Crustacea	EC50 0.1089 – 0.4899 mg/l (48 h)	American or virginia oyster	Zinc chloride
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**12.2 Persistence and degradability**

No information is available.

**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**

PBT Not applicable

vPvB Not applicable

**12.6. Other harmful effects**

No other detrimental effects to the environment, ozone degradation, photochemical ozone formation potential, endocrine problems, greenhouse potential) are expected from this component.

**13. INFORMATION ON DISPOSAL**

Recommendation Disposal according to the local official regulations

Product Dispose of in accordance with local authority regulations. Avoid discharging into the sewage system or waterways.

Waste code 15 01 10  
16 03 05

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

Unclean packaging Take empty containers to a recognised waste disposal plant for recycling or disposal.

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#### 14. INFORMATION ON TRANSPORT

	ADR/RID	IMDG	IATA-DGR
14.1 UN number	1760	1760	1760
14.2 Proper UN shipping name	CORROSIVE LIQUID MATERIAL not otherwise specified (zinc chloride)	CORROSIVE LIQUID MATERIAL not otherwise specified, marine pollutant	Corrosive liquid material, not otherwise specified
14.3 Transport hazard class	8	8	8
14.4 Packaging group	II	II	II
14.5 Environmental hazards	yes	yes	no

#### 14.6 Special preventive measures for the user

Before handling, read the safety instructions, safety data sheets and information on measures to be taken in an emergency.

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

Not available

#### 15. STATUTORY REGULATIONS

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

##### National regulations

Pay attention to national regulations for working with chemical agents.

Water hazard class 3 VwVwS Appendix 4

##### 15.2 Chemical safety assessment

A chemical safety assessment for materials in this mixture have not been carried out.

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## 16. OTHER INFORMATION

### Further information

The information given is based on our current level of knowledge and serves to describe the product in terms of the safety precautions to be taken. It does not represent an assurance of properties of the product described.

H302	Hazardous to health if swallowed.
H314	Causes serious chemical burns to skin and serious eye damage.
H319	Causes serious eye irritation.
H400	Extremely toxic for water organisms.
H410	Extremely toxic for water organisms, with long-term effects.