

**Trade name:** Weichlötpaste - Torrey Lötpaste Nr. 3**Current version :** 2.0.0, issued: 29.07.2014**Replaced version:** 1.1.1, issued: 10.06.2013**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****Weichlötpaste - Torrey Lötpaste Nr. 3****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

solder paste

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

Viega GmbH &amp; Co. KG

Viega Platz 1

57439 Attendorn

Telephone no. +49 2722 610

Fax no. + 49 2722 611415

**Information provided by / telephone**

+49 180 361-6062

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**1.4 Emergency telephone number**

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

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

Aquatic Chronic 3; H412

Eye Dam. 1; H318

Skin Irrit. 2; H315

STOT SE 3; H335

**Classification in accordance with Directive 67/548/EEC or 1999/45/EC**

Xi; R36/37/38

R52/53

**Classification information**

Classification and labelling with respect to corrosivity and irritation to skin are based on toxicological studies performed on the product (mixture).

Classification and labelling with respect to water pollution risks are based on ecotoxicological studies performed on the product (mixture).

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS05



GHS07

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

zinc chloride

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**Hazard statements**

H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H335 May cause respiratory irritation.  
 H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.  
 P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

**2.3 Other hazards**

No data available.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Chemical characterization**

Mixture (preparation)

**Hazardous ingredients**

No	Substance name			Additional information	
	CAS / EC / Index / REACH no	Classification 67/548/EEC	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	<b>zinc chloride</b>				
	7646-85-7 231-592-0 030-003-00-2 -	C; R34 Xn; R22 N; R50/53	Acute Tox. 4*; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Skin Corr. 1B; H314	> 10.00 - < 30.00	%-b.w.
2	<b>dodecan-1-ol</b>				
	112-53-8 203-982-0 -	N; R50	Aquatic Acute 1; H400	> 5.00 - < 10.00	%-b.w.
3	<b>ammonium chloride</b>				
	12125-02-9 235-186-4 017-014-00-8 -	Xn; R22 Xi; R36	Acute Tox. 4*; H302 Eye Irrit. 2; H319	> 5.00 - < 10.00	%-b.w.

Full Text for all R-phrases , H-phrases and EUH-phrases: pls. see section 16

(\*, \*\*, \*\*\*, \*\*\*\*) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	STOT SE 3; H335: C >= 5%	-	-

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

In case of persisting adverse effects, consult a physician. Change contaminated, saturated clothing.

**After inhalation**

Remove affected person from the immediate area. Ensure supply of fresh air.

**After skin contact**

In case of contact with skin wash off immediately with soap and water.

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#### **After eye contact**

Remove contact lens. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

#### **After ingestion**

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do not induce vomiting.

#### **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**

##### **Suitable extinguishing media**

Extinguishing measures to suit surroundings.

##### **Unsuitable extinguishing media**

No data available.

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

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Hydrogen chloride (HCl)

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

Use self-contained breathing apparatus. Wear protective clothing.

### **SECTION 6: Accidental release measures**

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

##### **For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

##### **For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

#### **6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

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

Take up mechanically. When picked up, treat material as prescribed under heading "Disposal considerations". Rinse away rest with plenty of water.

#### **6.4 Reference to other sections**

No data available.

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

##### **Advice on safe handling**

No special measures necessary if stored and handled as prescribed. Do not breathe steams or mist of the product. Provide good ventilation of working area (local exhaust ventilation, if necessary). Avoid eye, skin and clothing contact.

##### **General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Provide eye wash fountain in work area.

##### **Advice on protection against fire and explosion**

No special measures necessary.

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

##### **Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place.

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**Requirements for storage rooms and vessels**

Store product in closed containers.

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	hydrochloric acid	7647-01-0	231-595-7
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Hydrogen chloride			
gas and aerosol mists			
	STEL	8	5
	TWA	2	1
<b>2000/39/EWG</b>			
Hydrogen chloride			
	STEL	15	10
	TWA	8	5
2	ammonium chloride	12125-02-9	235-186-4
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Ammonium chloride			
fume			
	STEL	20	
	TWA	10	

**8.2 Exposure controls****Appropriate engineering controls**

No data available.

**Personal protective equipment****Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respirator B E P3 EN 14387

**Eye / face protection**

Safety glasses (EN 166)

**Hand protection**

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material rubber

**Other**

Protective work clothing.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****Form/Colour**

pasty

grey

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<b>Odour</b>			
odourless			
<b>Odour threshold</b>			
No data available			
<b>pH value</b>			
Value	appr.	7	
Reference temperature		20	°C
Concentration		20	g/l
<b>Boiling point / boiling range</b>			
not determined			
<b>Melting point / melting range</b>			
Value	appr.	200	°C
<b>Decomposition point / decomposition range</b>			
No data available			
<b>Flash point</b>			
Value	appr.	110	°C
<b>Auto-ignition temperature</b>			
No data available			
<b>Oxidising properties</b>			
No data available			
<b>Explosive properties</b>			
No data available			
<b>Flammability (solid, gas)</b>			
No data available			
<b>Lower flammability or explosive limits</b>			
No data available			
<b>Upper flammability or explosive limits</b>			
No data available			
<b>Vapour pressure</b>			
No data available			
<b>Vapour density</b>			
No data available			
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	appr.	2.35	g/cm <sup>3</sup>
<b>Solubility in water</b>			
Remarks	partly soluble		
<b>Solubility(ies)</b>			
No data available			
<b>Partition coefficient: n-octanol/water</b>			
No data available			
<b>Viscosity</b>			
Value	appr.	300 - 500	dPa*s

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**9.2 Other information****Other information**

No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available.

**10.2 Chemical stability**

stable if stored and handled properly.

**10.3 Possibility of hazardous reactions**

No data available.

**10.4 Conditions to avoid**

Heat

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

Hydrogen chloride (HCl)

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute oral toxicity (result of the ATE calculation for the mixture)****No Product Name****1 Weichlötpaste - Torrey Lötpaste Nr. 3**

Remarks

The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).

**Acute oral toxicity****No Substance name****CAS no.****EC no.****1 zinc chloride****7646-85-7****231-592-0**

LD50

350

mg/kg bodyweight

Species

rat

**Acute dermal toxicity**

No data available

**Acute inhalational toxicity**

No data available

**Skin corrosion/irritation****No Product Name****1 Weichlötpaste - Torrey Lötpaste Nr. 3**

Species

rabbit

Method

OECD 404

Source

Manufacturer

Evaluation

irritant

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<b>Serious eye damage/irritation</b>
No data available
<b>Respiratory or skin sensitisation</b>
No data available
<b>Germ cell mutagenicity</b>
No data available
<b>Reproduction toxicity</b>
No data available
<b>Carcinogenicity</b>
No data available
<b>STOT-single exposure</b>
No data available
<b>STOT-repeated exposure</b>
No data available
<b>Aspiration hazard</b>
No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

<b>Toxicity to fish (acute)</b>			
<b>No</b>	<b>Product Name</b>		
1	Weichlötpaste - Torrey Lötpaste Nr. 3		
LC50		250	mg/l
Duration of exposure		96	h
Source	Manufacturer		

<b>Toxicity to fish (chronic)</b>			
No data available			

<b>Toxicity to Daphnia (acute)</b>			
<b>No</b>	<b>Product Name</b>		
1	Weichlötpaste - Torrey Lötpaste Nr. 3		
EC50		310	mg/l
Duration of exposure		48	h
Source	Manufacturer		

<b>Toxicity to Daphnia (chronic)</b>			
No data available			

<b>Toxicity to algae (acute)</b>			
<b>No</b>	<b>Product Name</b>		
1	Weichlötpaste - Torrey Lötpaste Nr. 3		
IC50		13.5	mg/l
Duration of exposure		72	h
Source	Manufacturer		

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**Toxicity to algae (chronic)**

No data available

**Bacteria toxicity**

No data available

**12.2 Persistence and degradability**

No data available.

**12.3 Bioaccumulative potential**

No data available.

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

No data available.

**12.6 Other adverse effects**

No data available.

**12.7 Other information****Other information**

Do not discharge product unmonitored into the environment.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.

**14.2 Transport IMDG**

The product is not subject to IMDG regulations.

**14.3 Transport ICAO-TI / IATA**

The product is not subject to ICAO-TI / IATA regulations.

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not relevant



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## SECTION 15: Regulatory information

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

#### EU regulations

##### Restriction of occupation

Observe employment restrictions for young people.

##### Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Remarks Annex I, part 1 + 2: not mentioned. With regard to possibly appropriate decomposition products see Chapter 10.

### 15.2 Chemical safety assessment

No data available.

## SECTION 16: Other information

#### Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 1999/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

#### Full text of the R-, H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

R22	Harmful if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R36/37/38	Irritating to eyes, respiratory system and skin.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### Department issuing safety data sheet

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This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

#### Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.