

# SAFETY DATA SHEET

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name**

Unifix 3

**Product no.**

-

**REACH registration number**

Not applicable

**Other means of identification**

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

**Relevant identified uses of the substance or mixture**

Soldering

**Uses advised against**

-

The full text of any mentioned and identified use categories are given in section 16

### 1.3. Details of the supplier of the safety data sheet

**Company and address**

Unipak A/S  
Marktoften 3C  
8464 Galten  
Denmark

**E-mail**

sales@unipak.dk

**SDS date**

20-03-2015

**SDS Version**

1.0

### 1.4. Emergency telephone number

. +45 8626 1177 (normal opening time)

These services are only available to health professionals.

The UK National Poisons Emergency number is 0870 600 6266

Use your national or local emergency number

See section 4 "First aid measures"

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

STOT SE 3, STOT SE 3, Aquatic Chronic 2, Skin Corr. 1B, Eye Dam. 1, // H411, H336, H335, H318, H314

See full text of H/R-phrases in section 2.2.

**DPD/DSD Classification**

Irritant (Xi). Dangerous for the environment (N).

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment (R51/53).

Irritating to eyes, respiratory system and skin (R36/37/38).

### 2.2. Label elements

**Hazard pictogram(s)**

According to EC-Regulation 1907/2006 (REACH)



**Signal word**

Danger!

**Hazard statement(s)**

Causes severe skin burns and eye damage. (H314)  
 May cause respiratory irritation. (H335)  
 May cause drowsiness or dizziness. (H336)  
 Toxic to aquatic life with long lasting effects. (H411)

<b>Safety statement(s)</b>	<p><b>General</b> If medical advice is needed, have product container or label at hand. (P101)                  Keep out of reach of children. (P102)                  Read label before use. (P103)</p> <p><b>Prevention</b> -</p> <p><b>Response</b> Immediately call a POISON CENTER/doctor. (P310)                  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. (P303+P361+P353)                  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)</p> <p><b>Storage</b> Store in a well-ventilated place. Keep container tightly closed. (P403+P233)</p> <p><b>Disposal</b> Dispose of contents/container to an approved waste disposal plant. (P501)</p>
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**Identity of the substances primarily responsible for the major health hazards**

zinc chloride

**2.3. Other hazards**

**Additional labelling**

-

**Additional warnings**

-

**VOC**

-

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

**3.1/3.2. Substances**

NAME: zinc chloride  
 IDENTIFICATION NOS.: CAS-no: 7646-85-7 EC-no: 231-592-0 Index-no: 030-003-00-2  
 CONTENT: 5-10%  
 DSD CLASSIFICATION: C; R34 Xn; R22 N; R50-53  
 CLP CLASSIFICATION: Acute Tox. 4, Skin. Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1  
 H302, H314, H400, H410

NAME: copper  
 IDENTIFICATION NOS.: CAS-no: 7440-50-8 EC-no: 231-159-6  
 CONTENT: 1-3%  
 DSD CLASSIFICATION: -  
 CLP CLASSIFICATION: -

(\*) See full text of H/R-phrases in chapter 16. Occupational exposure limits are listed in section 8, if these are available.

**Other informations**

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor, if in doubt about the injured person's condition or if the symptoms continue. Never give an unconscious person water or similar.

#### **Inhalation**

Get the injured person into fresh air. Make sure there is always someone with the injured person. Prevent shock by keeping the injured person warm and calm. If the person stops breathing, give mouth-to-mouth resuscitation. If unconscious, roll the injured person onto side with the top leg bent at both knee and hip. Call an ambulance.

#### **Skin contact**

Remove contaminated clothing and shoes at once. Skin that has come in contact with the material must be washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

#### **Eye contact**

Remove contact lenses. Flush eyes with plenty of water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Contact a doctor at once.

#### **Ingestion**

Give the person plenty to drink and stay with the person. If the person feels unwell, contact a doctor immediately and take this safety data sheet or the label from the product with you. Do not induce vomiting unless recommended by the doctor. Hold head facing down so that no vomit runs back into the mouth and throat.

#### **Burns**

Rinse with water until the pain stops and continue for 30 minutes.

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

Tissue damaging effects: This product contains substances which are corrosive. If vapour or aerosols are inhaled, it can result in damage to lungs, irritation and burns in the respiratory organs as well as coughing. Corrosive substances cause irreversible damage to eyes and acid burns to skin.

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

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

IF exposed or concerned:  
Get immediate medical advice/attention.

#### **Information to medics**

Bring this safety data sheet.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Water jets should not be used, since they can spread the fire.

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

If the product is exposed to high temperatures, as in the case of fire, dangerous catabolic substances are produced. These are: Sulphur oxides. Nitrogen oxides. Fire will result in thick black smoke. Exposure to catabolic products can damage your health. Fire fighters should use proper protection gear. Closed containers, which are exposed to fire, should be cooled with water. Do not let fire-extinguishing water run into sewers and other water courses.

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

Wear self-contained breathing apparatus and protective clothing to prevent contact.

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

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

Avoid inhalation of vapours from waste material. Avoid direct contact with spilled substances.

#### **6.2. Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc. In the event of a leakage to the surroundings, contact the local environmental authorities. Consider putting up waste collecting trays/basins to prevent leakage to the surroundings.

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

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. Cleaning should be done as far as possible using normal cleaning agents. Solvents should be avoided.

#### 6.4. Reference to other sections

See section on "Disposal considerations" with regard to the handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Smoking, consumption of food or liquid, and storage of tobacco, food or liquids are not allowed in the workrooms. Consider putting up waste collecting trays/basins to prevent leakage to the surroundings. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

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

Always store in containers of the same material as the original. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### Storage temperature

cool and dry

#### 7.3. Specific end use(s)

This product should only be used for applications described in Section 1.2

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### OEL

copper (EH40, 2005)

Long-term exposure limit (8-hour TWA reference period): - ppm | 0.2/1 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): - ppm | /2 mg/m<sup>3</sup>

Comments: Fume/dust

zinc chloride (EH40, 2005)

Long-term exposure limit (8-hour TWA reference period): - ppm | 1 mg/m<sup>3</sup>

Short-term exposure limit (15-minute reference period): - ppm | 2 mg/m<sup>3</sup>

##### DNEL / PNEC

No data available.

#### 8.2. Exposure controls

Compliance with the stated exposure limits values should be checked on a regular basis.

##### General recommendations

▼ Observe general occupational hygiene.

##### Exposure scenarios

If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied.

##### Exposure limits

Trade users are covered by the rules of the working environment legislation on maximum concentrations for exposure. See work hygiene threshold values below.

##### Appropriate technical measures

Airborne gas and dust concentrations must be kept as low as possible and below the current threshold values (see below). Use for example an exhaust system if the normal air flow in the work room is not sufficient. Make sure that eyewash and emergency showers are clearly marked.

##### Hygiene measures

Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.

##### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible collect spillage during work.

#### Individual protection measures, such as personal protective equipment



Generally

According to EC-Regulation 1907/2006 (REACH)

Only CE-marked personal protection equipment should be used. Use only CE marked protective equipment.

#### Respiratory Equipment

Recommended: B, P1.

#### Skin protection

Special work clothing should be used. When working with this product for a long period of time, use a protective suit.

#### Hand protection

Recommended: butyl rubber. . Breakthrough time: > 480 minutes (Class 6)

#### Eye protection

Safety eye-wear should be used when there is a likelihood of exposure..

## SECTION 9: Physical and chemical properties

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

Form	Colour	Odour	pH	Viscosity	Density (g/cm <sup>3</sup> )
Pasta	-	-	6,5	-	2,8

#### Phase changes

Melting point (°C)	Boiling point (°C)	Vapour pressure (mm Hg)
230-250	100	17,25

#### Data on fire and explosion hazards

Flashpoint (°C)	Ignition (°C)	Self ignition (°C)
-	-	-
Explosion limits (Vol %)	Oxidizing properties	
-	-	

#### Solubility

Solubility in water	n-octanol/water coefficient
Soluble	-

### 9.2. Other information

Solubility in fat	Additional information
-	N/A

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available

### 10.2. Chemical stability

The product is stable under the conditions, noted in the section on "Handling and storage".

### 10.3. Possibility of hazardous reactions

No special

### 10.4. Conditions to avoid

No special

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reductants agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Substance	Species	Test	Route of exposure	Result
zinc chloride	Rat	LD50	Oral	350 mg/kg

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

Causes serious eye damage.

#### Respiratory or skin sensitisation

No data available.

#### Germ cell mutagenicity



According to EC-Regulation 1907/2006 (REACH)

<b>14.2. UN proper shipping name</b>	Corrosive solid, acidic, inorganic, n.o.s., mixture
<b>14.3. Transport hazard class(es)</b>	8
<b>14.4. Packing group</b>	III
<b>Notes</b>	-
<b>Tunnel restriction code</b>	-

#### IMDG

<b>UN-no.</b>	3260
<b>Proper Shipping Name</b>	Corrosive solid, acidic, inorganic, n.o.s., mixture
<b>Class</b>	8
<b>PG*</b>	-
<b>EmS</b>	-
<b>MP**</b>	-
<b>Hazardous constituent</b>	-

#### IATA/ICAO

<b>UN-no.</b>	
<b>Proper Shipping Name</b>	
<b>Class</b>	
<b>PG*</b>	

#### 14.5. Environmental hazards

This product contains substances which can cause undesirable long-term effects in the water environment, due to its poor biodegradability.

#### 14.6. Special precautions for user

-

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

(\*) Packing group

(\*\*) Marine pollutant

## SECTION 15: Regulatory information

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

#### Restrictions for application

People under the age of 18 must not be exposed to this product cf. Council Directive 94/33/EC.

#### Demands for specific education

-

#### Additional information

-

#### Sources

EC regulation 1907/2006 (REACH)

Directive 2000/532/EC

EC Regulation 1272/2008 (CLP)

### 15.2. Chemical safety assessment

No

## SECTION 16: Other information

### Full text of H/R-phrases as mentioned in section 3

R22 - Harmful if swallowed.

R34 - Causes burns.

R50 - Very toxic to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

According to EC-Regulation 1907/2006 (REACH)

**The full text of identified uses as mentioned in section 1**

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**Other symbols mentioned in section 2**

-

**Other**

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version)) is marked with a blue triangle.

**The safety data sheet is validated by**

**Date of last essential change  
(First cipher in SDS version)**

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**Date of last minor change  
(Last cipher in SDS version)**

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