

# 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**

18-08-2015

**SDS Version**

1.1

### 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

Skin Corr. 1B; H314

Eye Dam. 1; H318

STOT SE 3; H336

STOT SE 3; H335

Aquatic Chronic 3; H412

See full text of H-phrases in section 2.2.

### 2.2. Label elements

**Hazard pictogram(s)**



**Signal word**

Danger

**Hazard statement(s)**

- Causes severe skin burns and eye damage. (H314)
- May cause drowsiness or dizziness. (H336)
- May cause respiratory irritation. (H335)
- Harmful to aquatic life with long lasting effects. (H412)

<b>Safety statement(s)</b>	<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).
	<b>Prevention</b>	-
	<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).
	<b>Storage</b>	Store in a well-ventilated place. Keep container tightly closed. (P403+P233).
	<b>Disposal</b>	Dispose of contents/container to an approved waste disposal plant. (P501).

**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/Mixtures**

NAME: zinc chloride  
 IDENTIFICATION NOS.: CAS-no: 7646-85-7 EC-no: 231-592-0 Index-no: 030-003-00-2  
 CONTENT: 5-10%  
 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%  
 CLP CLASSIFICATION: NA

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

**Other informations**

Eye Cat. 2 Sum = Sum(Ci/S(G)CL) = 0 - 0  
 Skin Cat. 2 Sum = Sum(Ci/S(G)CL) = 0 - 0

**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**

Not applicable

**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**

According to EC-Regulation 1907/2006 (REACH)

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

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.

##### 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

Use only CE marked protective equipment.

##### Respiratory Equipment

Recommended: B, P1.

##### Skin protection

According to EC-Regulation 1907/2006 (REACH)

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	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
-	-

**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**

No data available.

**Carcinogenicity**

No data available.

**Reproductive toxicity**

No data available.

According to EC-Regulation 1907/2006 (REACH)

#### STOT-single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

#### STOT-repeated exposure

No data available.

#### Aspiration hazard

No data available.

#### Long term effects

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.

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	Species	Test	Test duration	Result
zinc chloride	Daphnia	EC50	48h	33 mg/L
zinc chloride	Fish	EC50	96h	> 100 mg/kg
zinc chloride	Fish	ErC50	72h	73 mg/L

### 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
No data available.			

### 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BFC
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

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

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

#### Waste

EWC code  
06 03 13

#### Specific labelling

-

#### Contaminated packing

Packaging which contains leftovers from the product must be disposed of in the same way as the product.

## SECTION 14: Transport information

This product is covered by the conventions on dangerous goods.

### 14.1 – 14.4

#### ADR/RID

14.1. UN number	3260
14.2. UN proper shipping name	Corrosive solid, acidic, inorganic, n.o.s., mixture
14.3. Transport hazard class(es)	8
14.4. Packing group	III
Notes	-

According to EC-Regulation 1907/2006 (REACH)

<b>Tunnel restriction code</b>	E
<b>IMDG</b>	
<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>	III
<b>EmS</b>	F-A, S-B
<b>MP**</b>	-
<b>Hazardous constituent</b>	-
<b>IATA/ICAO</b>	
<b>UN-no.</b>	
<b>Proper Shipping Name</b>	
<b>Class</b>	
<b>PG*</b>	

#### 14.5. Environmental hazards

-

#### 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-phrases as mentioned in section 3

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.

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

-

### 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.

According to EC-Regulation 1907/2006 (REACH)

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)**

-

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

-18-08-2015

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