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### Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 13.11.2020

Version number 7.2

Revision: 13.11.2020

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

#### · 1.1 Product identifier

• Trade name: Loetwasser Nr.1V • UFI: AFU0-20CA-900A-K4CE

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

- · Technical function soldering
- · Application of the substance / the mixture Soldering flux

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

Manufacturer/Supplier: Stannol GmbH & Co. KG Haberstrasse 24 D-42551 Velbert

+49 (0) 2051 3120 332 sdb@stannol.de

#### • Further information obtainable from: Product Safety Department • 1.4 Emergency telephone number: 8:00 am - 5:00 pm (CET) +49 (0) 2051 3120 332

National Poisons Information Service +44 121 507 4123

Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

#### **SECTION 2: Hazards identification**

#### · 2.1 Classification of the substance or mixture

#### · Classification according to Regulation (EC) No 1272/2008

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

STOT SE 3 H335 May cause respiratory irritation. Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

#### · 2.2 Label elements

#### · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



· Signal word Danger

#### · Hazard-determining components of labelling:

#### zinc chloride

#### Hazard statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read carefully and follow all instructions.
- P260 Do not breathe mist/vapours/spray.
- P271 Use only outdoors or in a well-ventilated area.

CH-Importer: Simpex Electronic AG Binzackerstrasse 33 CH-8622 Wetzikon Tel: 044-931-10-50 Fax: 044-931-10-51

Emergency telephone number (24h): 145



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P273	Avoid release to the environment.	
P280	Wear protective gloves / eye protection / face protection.	
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or		
	shower].	
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 doctor.	
P391	Collect spillage.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.	
· 2.3 Other hazards		
Flux / flux gels:		
Inhalation of vapors released during the soldering process should be avoided. Flux vapors irritate the nose, throat, and		
respiratory tract, and can lead to allergic reactions (asthma) after prolonged or repeated contact. Therefore, an active		
suction is recommended.		
After working with the product and before eating, drinking or smoking, wash your hands with soap and water.		

After working with the product and before eating, drinking or smoking, wash your hands with soap and water. Keep out of the reach of children.

#### · Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

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

#### · 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 7646-85-7 EINECS: 231-592-0	zinc chloride
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 Skin Corr. 1B, H314
 2.5-15%

 Aquatic Acute 1, H400; Aquatic Chronic 1, H410

 Acute Tox. 4, H302; STOT SE 3, H335

• Additional information: For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

• After inhalation: In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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

· 5.1 Extinguishing media

· Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters

· Protective equipment: Mouth respiratory protective device.



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#### SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Wear protective clothing. · 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water. - 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. 6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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

#### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· Information about fire - and explosion protection: Keep respiratory protective device available.

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

· Storage:

· Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

• Further information about storage conditions: Keep container tightly sealed.

· Storage class: 8 B

· 7.3 Specific end use(s) No further relevant information available.

#### SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

CAS: 7646-85-7 zinc chloride

WEL (Great Britain) Short-term value: 2 mg/m3

Long-term value: 1 mg/m<sup>3</sup>

• Additional information: The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

· Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

#### **Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

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#### · Protection of hands:



Protective gloves

Rubber gloves

Synthetic rubber gloves

To avoid skin problems reduce the wearing of gloves to the required minimum.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be

observed.

· Eye protection: Safety glasses

SECTION 9: Physical and chemical properties		
<ul> <li>9.1 Information on basic physical and chemical properties</li> <li>General Information</li> <li>Appearance:</li> </ul>		
<ul> <li>Form:</li> <li>Colour:</li> <li>Odour:</li> <li>Odour threshold:</li> </ul>	Fluid Clear Characteristic Not determined.	
· pH-value:	Not determined.	
<ul> <li>Change in condition</li> <li>Melting point/freezing point:</li> <li>Initial boiling point and boiling range</li> </ul>	Undetermined. : 100 °C	
· Flash point:	Not applicable.	
· Flammability (solid, gas):	Not applicable.	
· Decomposition temperature:	Not determined.	
· Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product does not present an explosion hazard.	
· Explosion limits: · Lower: · Upper:	Not determined. Not determined.	
· Vapour pressure:	Not determined.	
<ul> <li>Density at 20 °C:</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	1.09 g/cm <sup>3</sup> Not determined. Not determined. Not determined.	

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<ul> <li>Solubility in / Miscibility with</li> <li>water:</li> </ul>	Not miscible or difficult to mix.	
· Partition coefficient: n-octanol/water: Not determined.		
<ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> </ul>	Not determined. Not determined.	
<ul> <li>Solvent content:</li> <li>Water:</li> <li>VOC (EC)</li> <li>9.2 Other information</li> </ul>	89.5 % 0.00 % No further relevant information available.	

#### **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

#### **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

- · LD/LC50 values relevant for classification:
- CAS: 7646-85-7 zinc chloride

Oral LD50 350 mg/kg (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- · Serious eye damage/irritation

Causes serious eye damage.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure
- May cause respiratory irritation.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Toxic for fish



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#### · Additional ecological information:

#### · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

#### 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

#### · vPvB: Not applicable.

• **12.6 Other adverse effects** No further relevant information available.

#### **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

#### · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### · European waste catalogue

- 11 00 00 WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY
- 11 05 00 wastes from hot galvanising processes
- 11 05 04\* spent flux
- 15 00 00 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
- 15 01 00 packaging (including separately collected municipal packaging waste)
- 15 01 10\* packaging containing residues of or contaminated by hazardous substances
- HP8 Corrosive
- HP14 Ecotoxic

· Uncleaned packaging:

• Recommendation: Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Information whole switzerland:	FOEN, Federal Office for the Environment, CH-3003 Bern	Tel: 031-322-93-11
<b>SECTION 14: Transport informati</b>	on	

· 14.1 UN-Number · ADR, IMDG, IATA	UN1840
· 14.2 UN proper shipping name · ADR	1840 ZINC CHLORIDE SOLUTION mixture, ENVIRONMENTALLY HAZARDOUS
·IMDG	ZINC CHLORIDE SOLUTION mixture, MARINE POLLUTANT
·IATA	ZINC CHLORIDE SOLUTION mixture
· 14.3 Transport hazard class(es)	
· ADR, IMDG	
$\wedge$ $\wedge$	

· Class

8 Corrosive substances.



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· Label	8
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· Class · Label	8 Corrosive substances. 8
· 14.4 Packing group · ADR, IMDG, IATA	Ш
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: zinc chloride
<ul> <li>Marine pollutant:</li> <li>Special marking (ADR):</li> </ul>	Symbol (fish and tree) Symbol (fish and tree)
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Segregation groups</li> </ul>	Warning: Corrosive substances. 80 F-A,S-B Acids, heavy metals and their salts (including their organometallic compounds)
· Stowage Category	A
<ul> <li>14.7 Transport in bulk according to Annex II of Marpo and the IBC Code</li> </ul>	Not applicable.
· Transport/Additional information:	
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	3 E
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1840 ZINC CHLORIDE SOLUTION MIXTURE, 8, III, ENVIRONMENTALLY HAZARDOUS

#### **SECTION 15: Regulatory information**

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

• Seveso category E2 Hazardous to the Aquatic Environment

· Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.



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· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· Department issuing SDS: Product Safety Department

Contact: Hr. Dörr

#### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - oral - Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

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