



24. März 2021




Safety Data Sheet - according to Regulation (EC) no 1907/2006

INTERNATIONAL STANDARD NORM ISO 11014-1

Trade Name: ULF 10	Universal flux paste	F-SW 22 / DIN 8511
<p>1.) <u>IDENTIFICATION OF THE COMPANY/UNDERTAKING AND OF THE SUBSTANCE/MIXTURE</u></p> <p>1.1) Product identifier</p> <p>1.2.) Relevant identified uses of the substance or mixture and uses advised against</p> <p>Use of the substance/mixture:</p> <p>Uses advised against:</p> <p>1.3.) Details of the supplier of the safety data sheet</p> <p>Company: Supplier: Address:</p> <p>1.4.) Emergency telephone number</p>	<p>UNIVERSAL-LÖTFETT "ULF10"</p> <p>Industrial use of processing aids. Fluxes Paste</p> <p>No identified use(s). Do not use for private purposes (household).</p> <p>EDSYN GMBH EUROPA Finkenweg 2 D 97892 Kreuzwertheim</p> <p>Tel.: 09342 - 6413 Fax: 09342 - 6417</p> <p>Hospital</p>	
<p>2.) <u>HAZARDS IDENTIFICATION</u></p> <p>2.1.) Classification of the substance or mixture</p> <p>Classification according to Directive 67/548/EEC or 1999/45/EC</p> <p>Indications of danger:</p> <p>R phrases:</p> <p>Classification according to Regulation (EC) No. 1272/2008[CLP]</p> <p>Hazard categories:</p> <p>Hazard Statements:</p>	<p>Xi - Irritant, N - Dangerous for the environment</p> <p>- Irritating to eyes, respiratory system and skin - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p>Skin corrosion/irritation: Skin Corr. 1B Serious eye damage/ eye irritation: Eye Dam. 1 Specific target organ toxicity – single exposure: STOT SE 3 Hazardous to the aquatic environment: Aquatic Chronic 2</p> <p>Causes severe skin burns and eye damage. May cause respiratory irritation Toxic to aquatic life with long lasting effects.</p>	



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<p>2.2.) Label elements</p> <p>Hazardous components which must be listed on the label</p> <p>Signal word:</p> <p>Pictograms:</p> <p>Hazard statements</p> <p>Precautionary statements</p> <p>2.3.) Other hazards</p>	<p>zinc chloride</p> <p>Danger</p> <p>GHS05-GHS07-GHS09</p> <p>  </p> <p>H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H411 Toxic to aquatic life with long lasting effects.</p> <p>P260 Do not breathe dust/fume/gas/mist/vapours/spray. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/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/shower. P363 Wash contaminated clothing before reuse. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 Immediately call a POISON CENTER/doctor. 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. P391 Collect spillage. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container to Dispose of this material and its container to hazardous or special waste collection point.</p> <p>See attached safety data sheets and/or usage instructions. No risk worthy of mention.</p>
<p>3.) <u>COMPOSITION / INFORMATION ON INGREDIENTS</u></p> <p>3.1.) Chemical characterization Mixture related information:</p>	<p>Paste, Fat. Data apply to the main component. Activator)</p>



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3.2.) Mixtures

Hazardous components

Chemical name	Product identifier	Quantity	Classification according to Directive 67/548/EEC
			Classification according to Regulation (EC) No. 1272/2008 [CLP]
zinc chloride	CAS No. 7646-85-7 EC No. 231-592-0 Index No. 030-003-00-2 REACH No.	5-15%	C-Corrosive, Xn-Harmful, N-Dangerous for the environment, R22-34-50-53
			Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1 (M-Factor = 1); H302, H314, H400, H410

Full text of R-, H- and EUH-phrases: see section 16.

Further information:

Contains: Fat., Emulsifiers >> No risks worthy of mention.

4.) FIRST AID MEASURES

4.1.) Description of first aid measures

After inhalation:

Provide fresh air. Medical treatment necessary.

After contact with skin:

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, for at least 5 minutes, then consult an ophthalmologist immediately.

After ingestion:

Rinse mouth immediately and drink plenty of water. In case of persisting problems contact physician.

4.2.) Most important symptoms and effects, both acute and delayed

Rinse mouth immediately and drink plenty of water.

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

Treat symptomatically. No known symptoms to date.

5.) FIRE-FIGHTING MEASURES

5.1.) Extinguishing media

Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media:

D powder.

5.2.) Special hazards arising from the substance or mixture

Non-flammable.

5.3.) Advice for fire fighters

In case of fire: Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.



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<p>Additional information:</p>	<p>Suppress vapours/gases/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.</p>
<p>6.) <u>ACCIDENTAL RELEASE MEASURES</u></p> <p>6.1.) Personal precautions, protective equipment and emergency procedures</p> <p>6.2.) Environmental precautions</p> <p>6.3.) Methods and material for containment and cleaning up</p> <p>6.4.) Reference to other section</p>	<p>Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.</p> <p>Do not allow to enter into surface water or drains.</p> <p>Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.</p> <p>Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13. Treat the recovered material as prescribed in the section on waste disposal. See protective measures under point 7 and 8.</p>
<p>7.) <u>HANDLING AND STORAGE</u></p> <p>7.1.) Precautions for safe handling</p> <p>Advice on safe handling:</p> <p>Advice on protection against fire and explosion:</p> <p>Further information on handling:</p> <p>7.2.) Conditions for safe storage, including any incompatibilities</p> <p>Requirements for storage rooms and vessels:</p> <p>Advice on storage compatibility:</p> <p>Further information on storage conditions</p> <p>7.3.) Specific end use(s)</p>	<p>If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid generation of dust. Do not breathe dust. Conditions to avoid: Inhalation of vapours or spray/mists.</p> <p>Not highly flammable.</p> <p>Avoid contact with skin and eyes.</p> <p>Keep container tightly closed.</p> <p>To follow: Storage class:</p> <p>Protect against direct sunlight.</p> <p>Surface active agent.</p> <p>Further information: refer to Technical Data Sheet.</p>

8.) EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1.) Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
7646-85-7	Zinc chloride, fume	-	1		TWA(8h)	WEL
		-	2		STEL(15min)	WEL

Additional advice on limit values:

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2.) Exposure controls



Appropriate engineering controls:

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures:

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection:

Suitable eye protection: goggles. Safety glasses. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Hand protection:

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purpose, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Additional protection measures for the hands:

Hand protection: DIN EN 374

-CR (polychloroprenes, Chloroprene rubber).

Thickness of glove material: 0,65 mm

penetration time (maximum wearing period): > 120 Min.

-NBR (Nitrile rubber):

Thickness of glove material: 0,4 mm

penetration time (maximum wearing period): > 480 Min.

Breakthrough times and swelling properties of the material must be taken into consideration.

Take recovery periods for skin regeneration.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

Use gloves only once.

When handling with chemical substances, protective gloves must be worn with the CE label including the four control digits.

Before using check leak tightness / impermeability.



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<p>Skin protection:</p> <p>Respiratory protection:</p> <p>Environmental exposure controls:</p>	<p>Wear suitable protective clothing. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).</p> <p>In case of inadequate ventilation wear respiratory protection. [In case of inadequate ventilation] wear respiratory protection. Use appropriate respiratory protection. Use only respiratory protection equipment with CE-symbol including four digit test number. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used! Filtering device (full mask or mouthpiece) with filter: A</p> <p>No special measures are necessary.</p>
<p>9.) <u>PHYSIKAL AND CHEMICAL PROPERTIES</u></p> <p>9.1.) Information on basic physical and chemical properties</p> <p>Physical state: Colour: Odour:</p> <p>pH-Value:</p> <p>Changes in the physical state</p> <p>Melting point: Initial boiling point and boiling range: Sublimation point: Flash point:</p> <p>Flammability Solid: Gas: Lower explosion limits: Upper explosion limits:</p> <p>Auto-ignition temperature Solid: Gas: Decomposition temperature:</p> <p>Oxidizing properties Vapour pressure: Density (at 20 °C): Water solubility:</p> <p>Solubility in other solvents Partition coefficient: Vapour density: Evaporation rate:</p>	<p>Paste white - light yellow characteristic</p> <p style="text-align: center;">Test method</p> <p style="text-align: center;">not applicable etc.:</p> <p>> 60°C > 300°C not applicable etc. not applicable</p> <p>not determined not applicable not determined not determined</p> <p>not determined not applicable not determined</p> <p>Not oxidizing. Not determined ca. 0,9 g/cm³ insoluble</p> <p>Isopropyl alcohol, Ethanol Not determined Not determined Not determined</p>




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<p>9.2.) Other information</p> <p>Solid content:</p>	<p>ca. 96%</p>																		
<p>10.) <u>STABILITY AND REAKTIVITY</u></p> <p>10.1.) Reactivity</p> <p>10.2.) Chemical stability</p> <p>10.3.) Possibility of hazardous reactions</p> <p>10.4.) Conditions to avoid</p> <p>10.5.) Incompatible materials</p> <p>10.6.) Hazardous decomposition products</p> <p>Further information</p>	<p>No risks worthy of mention.</p> <p>Stability and reactivity: Yes.</p> <p>No risks worthy of mention.</p> <p>Keep away from heat.</p> <p>No data available.</p> <p>Thermal decomposition can lead to the escape of irritating gases and vapours.</p> <p>Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.</p>																		
<p>11.) <u>TOXICOLOGICAL INFORMATION</u></p> <p>11.1.) Information on toxicological effects</p> <p>Toxicocinetics, metabolism and distribution:</p> <p>Acute toxicity</p> <p><u>zinc chloride CAS No 7646-85-7</u></p> <table border="1" data-bbox="264 1444 1442 1503"> <thead> <tr> <th>Exposure routes</th> <th>Method</th> <th>Dose</th> <th>Species</th> <th>Source</th> </tr> </thead> <tbody> <tr> <td>oral</td> <td>LD50</td> <td>350mg/kg</td> <td>Rat</td> <td>RTECS</td> </tr> </tbody> </table> <p>Additional information on tests</p>	Exposure routes	Method	Dose	Species	Source	oral	LD50	350mg/kg	Rat	RTECS	<p>No data available.</p> <p>This mixture is classified as hazardous according to 1999/45/EC.</p>								
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oral	LD50	350mg/kg	Rat	RTECS															
<p>12.) <u>ECOLOGICAL INFORMATION</u></p> <p>12.1.) Toxicity</p> <p><u>zinc chloride CAS No 7646-85-7</u></p> <table border="1" data-bbox="264 1890 1442 1977"> <thead> <tr> <th>Aquatic toxicity</th> <th>Method</th> <th>Dose</th> <th>(h)</th> <th>Species</th> <th>Source</th> </tr> </thead> <tbody> <tr> <td>Acute fish toxicity</td> <td>LC50</td> <td>38mg/l</td> <td>96</td> <td>Danio rerio</td> <td>IUCLID</td> </tr> <tr> <td>Acute crustacea toxicity</td> <td>EC50</td> <td>0,33mg/l</td> <td>48</td> <td>Daphnia magna</td> <td>IUCLID</td> </tr> </tbody> </table>	Aquatic toxicity	Method	Dose	(h)	Species	Source	Acute fish toxicity	LC50	38mg/l	96	Danio rerio	IUCLID	Acute crustacea toxicity	EC50	0,33mg/l	48	Daphnia magna	IUCLID	<p>Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. No data available.</p>
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<p>12.2.) Persistence and degradability</p> <p>12.3.) Bioaccumulative potential</p> <p>12.4.) Mobility in soil</p> <p>12.5.) Results of PBT and vPvB assessment</p> <p>12.6.) Other adverse effects</p> <p>Further information:</p>	<p>Avoid contact with skin and eyes.</p> <p>On the basis of existing data about elimination/degradation and bio-accumulation potential longer term damage to the environment is unlikely.</p> <p>No data available.</p> <p>This substance does not meet the criteria for classification as PBT or vPvB.</p> <p>No data available. Do not mix with other wastes.</p> <p>Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.</p> <p>The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).</p>
<p>13.) <u>DISPOSAL CONSIDERATIONS</u></p> <p>13.1.) Waste treatment methods</p> <p>Advise on disposal:</p> <p>Waste disposal number of waste from residues/unused and used products:</p> <p>Waste disposal number of contaminated packaging:</p> <p>Contaminated packaging:</p>	<p>Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.</p> <p>060313 WASTE FROM INORGANIC CHEMICAL PROCESSES; wastes from the MFSU of salts and their solutions and metallic oxides; solid salts and solutions containing heavy metals. Classified as hazardous waste.</p> <p>150102 WASTE PACKAGING; ABSORBENTS WIPING CLOTHS; FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging.</p> <p>Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.</p>
<p>14.) <u>TRANSPORT INFORMATION</u></p> <p>14.1.) Land transport (ADR/RID)</p> <p>UN number:</p> <p>UN proper shipping name:</p> <p>Transport hazard class(es):</p> <p>Packing group:</p> <p>Hazard label:</p>	<p>UN 1759</p> <p>CORROSIVE SOLID,N.O.S (ZINC CHLORIDE, ANHYDROUS)</p> <p>8</p> <p>III</p> <p>8</p> 





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<p>Classification code: Special Provisions: Limited quantity: Excepted quantity: Transport category: Hazard No: Tunnel restriction code:</p>	<p>C 10 274 5 kg E1 3 80 E</p>
<p>14.2.) Inland waterways transport (ADN) UN number: UN proper shipping name: Transport hazard class(es): Packing group: Hazard label:</p>	<p>UN 1759 CORROSIVE SOLID,N.O.S (ZINC CHLORIDE, ANHYDROUS) 8 III 8 </p>
<p>Classification code: Special Provisions: Limited quantity: Excepted quantity:</p>	<p>C 10 274 5 kg E1</p>
<p>14.3.) Marine transport (IMDG) UN number: UN proper shipping name: Transport hazard class(es): Packing group: Hazard label:</p>	<p>UN 1759 CORROSIVE SOLID,N.O.S (ZINC CHLORIDE, ANHYDROUS) 8 III 8 </p>
<p>Special Provisions: Limited quantity: Excepted quantity: EmS: Segregation group:</p>	<p>223, 274 5 kg E1 F-A, S-B Heavy metals and their salts (including their organometallic compounds)</p>
<p>14.4.) Air transport (ICAO) UN number: UN proper shipping name: Transport hazard class(es):</p>	<p>UN1759 CORROSIVE SOLID,N.O.S (ZINC CHLORIDE, ANHYDROUS) 8</p>



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<p>Packing group: Hazard label:</p> <p>Special Provisions: Limited quantity Passenger: Passenger LQ Excepted quantity IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo:</p> <p>14.5.) Environmental hazards</p> <p>ENVIRONMENTALLY HAZARDOUS:</p> <p>Danger releasing substance:</p> <p>14.6.) Special precautions for user</p> <p>Warning:</p> <p>14.7.) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC-Code</p> <p>Other applicable information:</p>	<p>III 8</p>  <p>A3 A803 5 kg Y845 E1 860 25 kg 864 100 kg</p> <p>Yes</p>  <p>ZINC CHLORIDE, ANHYDROUS</p> <p>Strongly corrosive. Do not allow uncontrolled discharge of product into the environment.</p> <p>Not applicable etc.:</p> <p>Discharge into the environment must be avoided.</p>
<p>15.) REGULATORY INFORMATION</p> <p>15.1.) Safety, health and environmental regulations/legislation specific for the substance or mixture</p> <p>EU regulatory information</p> <p>Additional information</p> <p>National regulatory information Employment restrictions:</p> <p>Water contaminating class (D):</p> <p>Additional information</p> <p>15.2.) Chemical safety assessment</p>	<p>To follow:850/2004/EC, 79/117/EEC, 689/2008/EC</p> <p>Observe employment restrictions for young people.</p> <p>3 – highly water contaminating</p> <p>The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.</p> <p>Chemical safety assessments for substances in this mixture were not carried out.</p>

