Safety data sheet
according to 1907/2006/EC, Article 31 and 2020/878/EU

Printing date 28.12.2020 *Version number 2* *Revision: 28.12.2020*

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

1.1 Product identifier
Trade name: Soldering water PowerSurface
Lötwasser PowerSurface
UFI: *X6T9-E092-U00U-GGVE*

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Felder GmbH
Im Lipperfeld 11
D-46047 Oberhausen

Tel.: +49 (0)208/ 85035-0
Fax.: +49 (0)208/ 26080
http://www.felder.de
e-mail: info@felder.de
Further information obtainable from:
lab
(mo-thu. 8:00 a.m. - 4:00 p.m./ fr. 8:00 a.m. - 1:00 p.m.)
email: mprobst@felder.de

1.4 Emergency telephone number:
24 hr. emergency information:
Poison emergency call Berlin

"Giftnotruf Berlin"
Tel.: 0049-30-30686 790
EuPCS: *PC-TEC-24*

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008


GHS05 corrosion

Met. Corr.1	*H290*	*May be corrosive to metals.*
Skin Corr. 1B	*H314*	*Causes severe skin burns and eye damage.*
Eye Dam. 1	*H318*	*Causes serious eye damage.*


GHS09 environment

Aquatic Chronic 2	*H411*	*Toxic to aquatic life with long lasting effects.*


GHS07

Acute Tox. 4	*H302*	*Harmful if swallowed.*
STOT SE 3	*H335*	*May cause respiratory irritation.*

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


GHS05 GHS07 GHS09

Signal word *Danger*

Hazard-determining components of labelling:
hydrogen chloride

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hydrobromic acid 48 %
zinc chloride
indium trichloride
Hazard statements
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.
Precautionary statements
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 POISON CENTER/doctor.
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.

Labelling of packages where the contents do not exceed 125 ml
Hazard pictograms

GHS05 GHS07 GHS09

Signal word *Danger*

Hazard-determining components of labelling:
hydrogen chloride
hydrobromic acid 48 %
zinc chloride
indium trichloride
Hazard statements
H314 Causes severe skin burns and eye damage.
Precautionary statements
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 POISON CENTER/doctor.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other hazards
Results of PBT and vPvB assessment
PBT: *Not applicable.*
vPvB: *Not applicable.*

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: *Mixture: consisting of the following components.*

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Dangerous components:		
CAS: 7647-01-0 *EINECS: 231-595-7* *Index number: 017-002-00-2* *Reg.nr.: HCl Gas : 01-2119484862-27*	*hydrogen chloride* *Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; STOT SE 3, H335* *Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 %* *Skin Irrit. 2; H315: 10 % ≤ C < 25 %* *Eye Irrit. 2; H319: 10 % ≤ C < 25 %* *STOT SE 3; H335: C ≥ 10 %*	*50-100%*
EINECS: 233-113-0 *Index number: 035-002-01-8* *Reg.nr.: HBr gas: 01-2119479072-39*	*hydrobromic acid 48 %* *Met. Corr.1, H290; Skin Corr. 1B, H314; STOT SE 3, H335* *Specific concentration limits: Skin Corr. 1B; H314: C ≥ 40 %* *Skin Irrit. 2; H315: 10 % ≤ C < 40 %* *Eye Irrit. 2; H319: 10 % ≤ C < 40 %* *STOT SE 3; H335: C ≥ 10 %*	*<25%*
CAS: 112-34-5 *EINECS: 203-961-6* *Index number: 603-096-00-8* *Reg.nr.: 01-2119475104-44*	*2-(2-butoxyethoxy)ethanol* *Eye Irrit. 2, H319*	*<10%*
CAS: 7646-85-7 *EINECS: 231-592-0* *Index number: 030-003-00-2* *Reg.nr.: 01-2119472431-44*	*zinc chloride* *Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302* *Specific concentration limit: STOT SE 3; H335: C ≥ 5 %*	*<10%*
CAS: 10025-82-8 *EINECS: 233-043-0*	*indium trichloride* *STOT RE 1, H372; Skin Corr. 1B, H314; Aquatic Chronic 3, H412*	*<10%*

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.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
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.
If skin irritation continues, consult a doctor.
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.
Do not induce vomiting; call for medical help 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.
CO2, sand, extinguishing powder. Do not use water.
For safety reasons unsuitable extinguishing agents: *Water*
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
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions:
Dilute with plenty of water.
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:
Store away from metals.
Do not store together with alkalis (caustic solutions).
Further information about storage conditions: *Keep container tightly sealed.*
Storage class: *8 A*
7.3 Specific end use(s) *No further relevant information available.*

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
7647-01-0 hydrogen chloride	
IOELV (EU)	*Short-term value: 15 mg/m³, 10 ppm* *Long-term value: 8 mg/m³, 5 ppm*
AGW (Germany)	*Long-term value: 3 mg/m³, 2 ppm* *2(I);DFG, EU, Y*
WEL (Great Britain)	*Short-term value: 8 mg/m³, 5 ppm* *Long-term value: 2 mg/m³, 1 ppm* *(gas and aerosol mists)*
112-34-5 2-(2-butoxyethoxy)ethanol	
IOELV (EU)	*Short-term value: 101.2 mg/m³, 15 ppm* *Long-term value: 67.5 mg/m³, 10 ppm*
AGW (Germany)	*Long-term value: 67 mg/m³, 10 ppm* *1.5(I);EU, DFG, Y, 11*
WEL (Great Britain)	*Short-term value: 101.2 mg/m³, 15 ppm* *Long-term value: 67.5 mg/m³, 10 ppm*
10025-82-8 indium trichloride	
WEL (Great Britain)	*Short-term value: 0.3 mg/m³* *Long-term value: 0.1 mg/m³* *as In*

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7646-85-7 zinc chloride	
MAK (Germany)	*Long-term value: 0.1A* 2E** mg/m³ *alveolengängig; **einatembar*
WEL (Great Britain)	*Short-term value: 2 mg/m³* *Long-term value: 1 mg/m³*

Regulatory information
IOELV (EU): (EU) 2019/1831
AGW (Germany): TRGS 900
WEL (Great Britain): EH40/2020
recommended monitoring procedures in accordance with 453/2010/EU no. 8.1.2:
7647-01-0 hydrogen chloride: BIA 6640(D), MTA/MA-019/A90(ESP), OSHA ID-174SG(E), MétroPol Fiche 009 Anions minéraux(F)
7646-85-7 Zinc chloride: NIOSH 7300, 7301, 7303(E) "Zinc", OSHA, ID-121(E)
112-34-5 2-(2-butoxyethoxy)ethanol: BIA 6450(D)
Regulatory information *BGW (Germany): TRGS 903*
Additional information: *The lists valid during the making were used as basis.*

8.2 Exposure controls
Appropriate engineering controls *Provide adequate ventilation. Remove the vapors using suitable suction devices.*
Individual protection measures, such as 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.
Avoid contact with the eyes and skin.
Respiratory protection:
Suitable respiratory protective device recommended.
filer E
filter ABEK
Hand protection

Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves
Nitrile rubber, NBR
Butyl rubber, BR
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 cannot be calculated in advance and has therefore to be checked prior to the application.
Recommended thickness of the material: ≥ 0.4 mm
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
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.
Value for the permeation: Level ≤ 6
As protection from splashes gloves made of the following materials are suitable: *Nitrile rubber, NBR*
Eye/face protection

Tightly sealed goggles

Body protection: *Protective work clothing*

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information

Colour:	*Yellow tint*
Odour:	*Pungent*
Odour threshold:	*Not determined.*
Boiling point or initial boiling point and boiling range	*100-110 °C (7647-01-0 hydrogen chloride)*

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Flammability	*Not applicable.*
Lower and upper explosion limit	
Lower:	*Not determined.*
Upper:	*Not determined.*
Flash point:	*114 °C (112-34-5 2-(2-butoxyethoxy)ethanol)*
Auto-ignition temperature:	*Product is not selfigniting.*
Decomposition temperature:	*Not determined.*
pH at 20 °C	*<0*
Viscosity:	
Kinematic viscosity	*Not determined.*
Dynamic:	*Not determined.*
Solubility	
water:	*Fully miscible.*
Partition coefficient n-octanol/water (log value)	*Not determined.*
Vapour pressure:	*Not determined.*
Density and/or relative density	
Density:	*Not determined.*
Relative density	*Not determined.*
Vapour density	*Not determined.*

9.2 Other information

Appearance:	
Form:	*Fluid*
Important information on protection of health and environment, and on safety.	
Explosive properties:	*Product does not present an explosion hazard.*
Solvent content:	
Organic solvents:	*5.0 %*
VOC (EC)	*5.00 %*
Solids content:	*7.1 %*
Change in condition	
Evaporation rate	*Not determined.*

Information with regard to physical hazard classes

Explosives	*Void*
Flammable gases	*Void*
Aerosols	*Void*
Oxidising gases	*Void*
Gases under pressure	*Void*
Flammable liquids	*Void*
Flammable solids	*Void*
Self-reactive substances and mixtures	*Void*
Pyrophoric liquids	*Void*
Pyrophoric solids	*Void*
Self-heating substances and mixtures	*Void*
Substances and mixtures, which emit flammable gases in contact with water	*Void*
Oxidising liquids	*Void*
Oxidising solids	*Void*
Organic peroxides	*Void*
Corrosive to metals	
May be corrosive to metals.	
Desensitised explosives	*Void*

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.*

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10.6 Hazardous decomposition products: *No dangerous decomposition products known.*

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity
Harmful if swallowed.

LD/LC50 values relevant for classification:		
ATE (Acute Toxicity Estimates)		
Oral	*LD50*	*1,236-1,244 mg/kg*
Dermal	*LD50*	*100,000 mg/kg*
Inhalative	*LC50/4 h*	*167 mg/l*

7647-01-0 hydrogen chloride		
Oral	*LD50*	*900 mg/kg (rabbit)*
7646-85-7 zinc chloride		
Oral	*LD50*	*1,100-1,260 mg/kg (rat)*

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.*
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.*
11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

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.*
12.5 Results of PBT and vPvB assessment
PBT: *Not applicable.*
vPvB: *Not applicable.*
12.6 Endocrine disrupting properties *For information on endocrine disrupting properties see section 11.*
12.7 Other adverse effects
Remark: *Toxic for fish*
Additional ecological information:
General notes:
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
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.

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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
06 03 13: solid salts and solutions containing heavy metals*
HP5: Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP6: Acute Toxicity
HP8: Corrosive
HP14: Ecotoxic

cleaned sales packaging:
15 01 02: plastic packaging
overpack:
15 01 01: paper and cardboard packaging
Uncleaned packaging: *15 01 10*: packaging containing residues of or contaminated by hazardous substances*
Recommendation: *Disposal must be made according to official regulations.*
Recommended cleansing agents: *Water, if necessary together with cleansing agents.*

SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA *UN3264*
14.2 UN proper shipping name
ADR *3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, HYDROBROMIC ACID), ENVIRONMENTALLY HAZARDOUS*
IMDG *CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, HYDROBROMIC ACID), MARINE POLLUTANT*
IATA *CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, HYDROBROMIC ACID)*

14.3 Transport hazard class(es)

ADR, IMDG

Class *8 Corrosive substances.*
Label *8*
IATA

Class *8 Corrosive substances.*
Label *8*
14.4 Packing group
ADR, IMDG, IATA *II*
14.5 Environmental hazards: *Product contains environmentally hazardous substances: zinc chloride*
Marine pollutant: *Symbol (fish and tree)*
Special marking (ADR): *Symbol (fish and tree)*
14.6 Special precautions for user *Warning: Corrosive substances.*
Hazard identification number (Kemler code): *80*
EMS Number: *F-A,S-B*
Segregation groups *Acids*
Stowage Category *B*
Stowage Code *SW2 Clear of living quarters.*
14.7 Maritime transport in bulk according to IMO instruments *Not applicable.*

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Transport/Additional information:

ADR	
Limited quantities (LQ)	*1L*
Excepted quantities (EQ)	*Code: E2* *Maximum net quantity per inner packaging: 30 ml* *Maximum net quantity per outer packaging: 500 ml*
Transport category	*2*
Tunnel restriction code	*E*
IMDG	
Limited quantities (LQ)	*1L*
Excepted quantities (EQ)	*Code: E2* *Maximum net quantity per inner packaging: 30 ml* *Maximum net quantity per outer packaging: 500 ml*
UN "Model Regulation":	*UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, HYDROBROMIC ACID), 8, II, 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, 55*

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.

National regulations:

Information about limitation of use: *Employment restrictions concerning juveniles must be observed.*
Waterhazard class: *Water hazard class 3 (Self-assessment): extremely hazardous for water.*
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.

Reasons for changes: *28.12.2020: section 1, 3, 16*
Information referred to in Annex I, point 1.3.4.2 of Regulation 1272/2008/EC:

Relevant phrases
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
Recommended restriction of use *For commercial use only.*
Contact: *Dr. M. Probst*
Version number of previous version: *1*
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

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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
Met. Corr.1: Corrosive to metals – Category 1
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
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
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
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Safety data sheet *SD3543*