# according to Regulation (EC) No 1907/2006, Article 31 and 2020/878/

Printing date 22.05.2025

Version number 11 (replaces version 10)

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

#### 1.1 Product identifier

Trade name: <u>Soldering water "Hobby"</u>, <u>soldering water 25ml</u>, <u>soldering water 50/500ml</u> UFI: *RES8-40W6-H00R-R68J* 



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## 1.2 Relevant identified uses of the substance or mixture

and uses advised against

No further relevant information available.

Application of the substance / the mixture Soldering flux

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

Manufacturer/Supplier:

FELDER GMBH Im Lipperfeld 11 D-46047 Oberhausen

Tel.:0208/8 50 35-0 Fax.:0208/2 60 80 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-hour emergency information:

Giftnotruf Berlin, counselling in German and English

Phone: (030) 30686 700 **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

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.



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 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**

P102

Keep out of reach of children.

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P103 Read carefully and follow all instructions.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or

showerl.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor. P310

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 statements**

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

**Precautionary statements** 

Keep out of reach of children. P102

P103 Read carefully and follow all instructions.

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.

Immediately call a POISON CENTER/doctor. P310

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

#### 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.

Dangerous components:		
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: 12125-02-9 EINECS: 235-186-4 Index number: 017-014-00-8 Reg.nr.: 01-2119487950-27	ammonium chloride  ••• Acute Tox. 4, H302; Eye Irrit. 2, H319	<5%

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: Take affected persons out into the fresh air.

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

After skin contact: Seek medical treatment.

Immediately wash with water and soap and rinse thoroughly.

After eye contact: Protect unharmed eye.

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Seek medical treatment.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Seek medical treatment.

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: CO2, powder or water spray. Fight larger fires with water spray.

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Hydrogen chloride (HCl)

5.3 Advice for firefighters

Protective equipment: Do not inhale explosion gases or combustion gases.

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

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

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: No special measures required.

#### 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 foodstuffs.

Store separately from metals.

## Further information about storage conditions:

Protect from frost.

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**

## 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
12125-02-9 ammo	nium chloride
WES (Australia)	Short-term value: 20 mg/m³
	Long-term value: 10 mg/m³
	fume

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WEL (Great Britain) Short-term value: 20 mg/m3

Long-term value: 10 mg/m<sup>3</sup> Short-term value: 20 mg/m3 Long-term value: 10 mg/m3

Regulatory information

OEL (Ireland)

WES (Australia): Workplace exposure standards for airborne contaminants

WEL (Great Britain): EH40/2020

OEL (Ireland): 2024 CoP for the Safety, Health and Welfare at Work

recommended monitoring procedures in accordance with 2020/878/EU no. 8.1.2:

12125-02-9 ammonium chloride: OSHA, ID-188 (E) "ammonia"

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

#### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation.

Remove the fumes by means of suitable suction devices.

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

#### General protective and hygienic measures:

Do not eat, drink, smoke or sniff while working.

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:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter B Filter P2

#### **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  $\leq$  6

For the permanent contact gloves made of the following materials are suitable:

Butvl rubber, BR 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: Yellowish Odour: Characteristic **Odour threshold:** Not determined.

Boiling point or initial boiling point and boiling range 100 °C

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Flammability Not applicable.

Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.
Decomposition temperature: Not determined.
PH Not determined.

Viscosity:

Kinematic viscosity

Dynamic:

Not determined.

Not determined.

Solubility

water: Fully miscible.
Partition coefficient n-octanol/water (log value) Not determined.

Vapour pressure at 20 °C: 23 hPa

Density and/or relative density

Density at 20 °C:1.18 g/cm³Relative densityNot determined.Vapour densityNot determined.

9.2 Other information

Appearance:

Form: Fluid

Important information on protection of health and

environment, and on safety.

**Ignition temperature:** Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Solvent content:

 Water:
 87.2 %

 VOC (EC)
 0.00 %

 Solids content:
 12.8 %

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 Void Desensitised explosives

## **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:

Hydrogen chloride (HCI)

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Ammonia

## **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

## LD/LC50 values relevant for classification:

## ATE (Acute Toxicity Estimates)

Oral LD50 9,706-10,728 mg/kg (rat)

#### Primary irritant effect:

Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

Causes serious eve 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

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Remark: Toxic for fish

Additional ecological information:

General notes:

Toxic for aquatic organisms

Also poisonous for fish and plankton in water bodies.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

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

## **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

HP 8: Corrosive HP 14: Ecotoxic

sales packaging:

15 01 02: plastic packaging

overpack:

15 01 01: paper and cardboard packaging

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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

14.2 UN proper shipping name

**ADR** 

1840 ZINC CHLORIDE SOLUTION, ENVIRONMENTALLY

**HAZARDOUS** 

UN1840

**IMDG** ZINC CHLORIDE SOLUTION, MARINE POLLUTANT

**IATA** ZINC CHLORIDE SOLUTION

14.3 Transport hazard class(es)

ADR, IMDG





Class 8 Corrosive substances.

Label **IATA** 

**Class** 8 Corrosive substances.

Label 8

14.4 Packing group

ADR, IMDG, IATA

14.5 Environmental hazards: Product contains environmentally hazardous substances: zinc

chloride

Marine pollutant: Yes

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:** 

Segregation groups (SGG1) Acids, (SGG7) heavy metals and their salts (including

their organometallic compounds)

**Stowage Category** 

14.7 Maritime transport in bulk according to IMO

Not applicable. instruments

**Transport/Additional information:** 

Limited quantities (LQ)

**Excepted quantities (EQ)** Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

Transport category **Tunnel restriction code** Ε

Limited quantities (LQ) 5L

**Excepted quantities (EQ)** Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

UN 1840 ZINC CHLORIDE SOLUTION, 8, III, **UN "Model Regulation":** 

**ENVIRONMENTALLY HAZARDOUS** 

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### **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 (EU) 2019/1021 on persistent organic pollutants (POP) None of the ingredients are included.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 65

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.

#### **REGULATION (EU) 2019/1148**

## Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

#### Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

#### Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

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 2 (Self-assessment): 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:

24.08.2015: Adaptation to Regulation 453/2010 / EC and 830/2015 / EU

06.11.2015: Section 15 Adjustment VO 18/2012 / EU

23.05.2015: Section 14 correction, section 11

10.07.2017: section 15

22.12.2017: section 13

27.03.2019: section 8.2

04.09.2019: section 1 UFI

18.02.2021: section 3, 8, 11, 15, 16

24.03.2023: section 12, 14, 15

22.05.2025: section 1, 8, 11, 16

## Information referred to in Annex I, point 1.3.4.2 of Regulation 1272/2008/EC:

#### Relevant phrases

H302 Harmful if swallowed.

H314 Causes severe skin burns and eve damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Contact: Dr. M. Probst

Version number of previous version: 10

#### Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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ADR: Accord relatif au transport international 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

ATE: Acute toxicity estimate values
Acute Tox. 4: Acute toxicity – 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

Eye Imit. 2. Serious eye damagere initation – Category 2
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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