

according to UK REACH Regulation

FINOSTOP Solder Protection Paste

Revision date: 16.12.2022

42010

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

1.1. Product identifier

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Further trade names

HYDROCHLORIC ACID

Product group:	organische Gase
CAS No:	7647-01-0
Index No:	017-002-00-2
EC No:	231-595-7

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

Use of the substance/mixture

Protection of plastic saddles and teeth during flame soldering of partial dentures.

Uses advised against

The present toxicological data do not show any hazardous properties.*

1.3. Details of the supplier of the safety data sheet

Company name:	FINO GmbH	
Street:	Mangelsfeld 18	
Place:	D-97708 Bad Bocklet	
Telephone: e-mail:	+49-97 08-90 94 20 info@fino.com	Telefax: +49-97 08-90 94 21 Internet: www.fino.com
Contact person: e-mail:	Joachim Mahlmeister info@fino.com	Telephone: +49-97 08-90 94 20
Responsible Department:	This number can only be reached 8 a.m. to 5 p.m.	during our office hours, Monday to Friday from
<u>1.4. Emergency telephone</u> number:	+49-89-1 92 40 POISON CENTER München 24 hour(s) 7 day(s)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Acute Tox. 3; H331 Skin Corr. 1A; H314

Full text of hazard statements: see SECTION 16.

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

Additional advice on labelling

According to EC directives or the corresponding national regulations the product does not have to be labelled. Classification according to Regulation (EC) No 1272/2008 [CLP]

2.3. Other hazards

Results of PBT and vPvB assessment not applicable. No risks worthy of mention.

SECTION 3: Composition/information on ingredients

3.1. Substances



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Chemical characterization

Watery, inorganic mineral paste with stabilising substances.

Sum formula:	H-CI	
Molecular weight:	36,46	g/mol

Hazardous components

CAS No	Chemical name				
	EC No Index No REACH No				
	Classification (GB CLP Regulation)				
7647-01-0	hydrogen chloride				
	231-595-7 017-002-00-2				
	Acute Tox. 3, Skin Corr. 1A; H331 H314				

Full text of H and EUH statements: see section 16.

Specific Conc. Limits. M-factors and ATE

CAS No	EC No	Chemical name	Quantity			
	Specific Conc. L	Specific Conc. Limits, M-factors and ATE				
7647-01-0	231-595-7	hydrogen chloride	< 3 %			
	inhalation: ATE	halation: ATE = 3 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists)				

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

None if product is used according to specifications. Remove affected person from the danger area and lay down. Do not leave affected person unattended.

After inhalation

Remove casualty to fresh air and keep warm and at rest.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Seek medical attention if problems persist. Product reacts slightly alkaline.

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

No information available.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, Dry extinguishing powder, Carbon dioxide (CO2), Water spray jet

Unsuitable extinguishing media

Full water jet



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5.2. Special hazards arising from the substance or mixture

If possible remove stored material from the fire area.

Use water spray jet to protect personnel and to cool endangered containers.

5.3. Advice for firefighters

Not known.

Additional information

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

None if used according to specifications.

For non-emergency personnel

Emergency procedures Remove victim out of the danger area. Remove affected person from the danger area and lay down. Remove persons to safety. The danger areas must be delimited and identified using relevant warning and safety signs.

For emergency responders

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Use personal protection equipment.

6.2. Environmental precautions

No special environmental measures are necessary.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid- binding material (sand, diatomite, acid binders, universal binders, sawdust).

Other information

Take up mechanically. Special danger of slipping by leaking/spilling product. Clear contaminated areas thoroughly. Wash with plenty of water.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Treat the recovered material as prescribed in the section on waste disposal. Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures are necessary.

Advice on protection against fire and explosion

None if stored and handled according to specifications.

Advice on general occupational hygiene

The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and after work. Do not eat, drink or smoke when using this product.

Further information on handling

Keep container tightly closed. To prevent drying-out.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store at room temperature.



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Keep container tightly closed. storage temperature 5-40 °C Protect against: Frost

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

No special precautionary measures.

7.3. Specific end use(s)

This substance/mixture does not contain any components in concentrations of 0,1 %, or higher than either persistent, bioaccumulative and toxic (PBT) or very persistent and are classified as highly bioaccumulative (vPvB).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7647-01-0	Hydrogen chloride (gas and aerosol mists)	1	2		TWA (8 h)	WEL
		5	8		STEL (15 min)	WEL

Additional advice on limit values

The lists valid during the making were used as basis.

8.2. Exposure controls





Appropriate engineering controls

Provide adequate ventilation. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. 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, self-contained breathing apparatus must be used. Use suitable breathing apparatus.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles

Face protection shield

Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. 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.

The precise time of rupture can be found out from the manufacturer of the protective gloves and must be observed.

Skin protection

common occupational protective clothing.

Respiratory protection

Use appropriate respiratory protection. Filter type: A2 P2 If workplace exposure limits are exceeded, respiratory protection must be worn. Self-contained respirator (breathing apparatus)

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SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state: Paste Colour: blue Odour: odourless Test method Changes in the physical state Melting point/freezing point: 2000 °C Boiling point or initial boiling point and not applicable boiling range: Softening point: not determined ASTM D 1015 : Flash point: not flammable Flammability ISO 10156 Solid/liquid: not applicable not applicable Gas: **Explosive properties** not explosive according to EU A.14 Lower explosion limits: Upper explosion limits: ___ void Auto-ignition temperature: Self-ignition temperature not applicable Solid: not applicable Decomposition temperature: pH-Value: 10 2.000.000 mPa·s Viscosity / dynamic: (at 20 °C) Water solubility: not determined Partition coefficient n-octanol/water: not determined OECD (TG) 117 Vapour pressure: (at 20 °C) Density (at 20 °C): 1,1 g/cm³ Bulk density: not determined Relative vapour density: not determined 9.2. Other information Information with regard to physical hazard classes No data available Sustaining combustion: Oxidizing properties Not oxidising. Other safety characteristics Solvent content: Organic solvents: -,- % Maximum VOC content: - % Solid content: not determined Evaporation rate: not determined **Further Information**



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SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Avoid high temperatures or direct sunlight. Only use the material in places where open light, fire and other flammable sources can be kept away.

10.5. Incompatible materials

Oxidizing agent, Acids, alkalines

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
7647-01-0	hydrogen chloride							
	inhalation vapour	ATE	3 mg/l					
	inhalation dust/mist	ATE	0,5 mg/l					

Irritation and corrosivity

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

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

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.

Specific effects in experiment on an animal

Toxicological analyses are not available.

Additional information on tests

The product is not liable to marking based on the evaluation procedure of the general Directive for Classification of Preparations of the EC in the lasted valid version. Product reacts slightly alkaline.

Practical experience

No special references.

11.2. Information on other hazards



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Other information

No special precautionary measures.

SECTION 12: Ecological information

12.1. Toxicity

If used and handled pertinently ecological problems are not o expect.

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12.2. Persistence and degradability

Not applicable.

12.3. Bioaccumulative potential

Ecologically harmless.

12.4. Mobility in soil

Poorly watersoluble, inorganic product. Can be mechanically precipitated to a large extent in biological sewage plants.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

Harmful effects for aquatic organisms are not to expect.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

List of Wastes Code - residues/unused products

070199 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; wastes not otherwise specified

List of Wastes Code - used product

070199 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals; wastes not otherwise specified

Contaminated packaging

Non-contaminated packages may be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN 0000
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 0000
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Marine transport (IMDG)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.



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Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
14.6. Special precautions for user		
No special measures are necessary		
14.7. Maritime transport in bulk according		
No special precautionary measures.		
SECTION 15: Regulatory information		
15.1. Safety, health and environmental re-	gulations/legislation specific for the substance or mixture	
	<u></u>	
EU regulatory information		
Restrictions on use (REACH, annex XVI Entry 3	II):	
2004/42/EC (VOC):	no classification	
Information according to 2012/18/EU	Not subject to 2012/18/EU (SEVESO III)	
(SEVESO III):		
Additional information:	0	
Additional information		
According to EC directives or the co	rresponding national regulations the product does not have to be labelled.	
The mixture is classified as not haza	ardous according to regulation (EC) No 1272/2008 [CLP].	
National regulatory information		
Water hazard class (D):	1 - slightly hazardous to water	
Additional information		
Betriebssicherheitsverordnung (Betr	SichV)	
No further data.		
15.2. Chemical safety assessment		
Chemical safety assessments for su	bstances in this mixture were not carried out.	
SECTION 16: Other information		
Changes		
* Data changed compared with the p	previous version.	
Abbreviations and acronyms		
-	rnant le transport des marchandises dangereuses par chemin de fer	
	ational Transport of Dangerous Goods by Rail)	
"IATA-DGR: Dangerous Goods Reg	ulations by the ""International Air Transport Association"" (IATA)"	
ICAO: International Civil Aviation Or	•	
"ICAO TI: Teebnicel Instructions but	the ""International Civil Aviation Organization"" (ICAO)"	

"ICAO-TI: Technical Instructions by the ""International Civil Aviation Organization"" (ICAO)"

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 Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society)
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Acute Tox. 3: Acute toxicity, Hazard Category 3



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Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

REF

Relevant H and EUH statements (number and full text)

H314 Causes severe skin burns and eye damage.

Toxic if inhaled.

Further Information

H331

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Flussmittel	-	20	38	13	6a	7	-	85392-66-1

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use PROC: Process categories

AC: Article categories