



according Regulation (EU) No. 2015/830

Date of issue: 12.12.2018

Revision date: - / Version: 1.0

Hinriflux paste

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

- 1.1 Product identifier
Product name: Hinriflux paste
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses: Flux for all alloys (precious metals, model casting)
Applicable for glazing ceramic crucibles
- 1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier: ERNST HINRICHS Dental GmbH
Street / mailbox: Borsigstr. 1
Country code. / postal code / city: D - 38644 Goslar
Phone: 0 53 21 / 5 06 24
Fax: 0 53 21 / 5 08 81
E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de
Further information obtainable from: ERNST HINRICHS Dental GmbH
- 1.4 Emergency telephone number
ERNST HINRICHS Dental GmbH: +49 (0) 53 21 / 5 06 24 - 25 (Mon-Fri. 8 a.m. – 4 p.m.)

SECTION 2: Hazards identification:

- 2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified
- 2.2 Label elements:
Labelling according to Regulation (EC) No. 1272/2008 [CLP]:
EUH210 Safety data sheet available on request
- 2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients:

3.1 Substances Not applicable.

3.2 Mixtures

Dangerous components:

CAS No) 7681-49-4	Sodium fluoride	1 – 3 %
(EC No) 231-667-8	Acute Tox. 3; Skin Irrit. 2; Eye Irrit. 2; H301, H315, H319,	
(Index No) 009-004-00-7	EUH032	

Full text of H-statements: see section 16

SECTION 4: First aid measures:

- 4.1 Description of first aid measures:
First-aid measures general: Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. If unconscious, place in the recovery position and seek medical advice.
- First-aid measures after inhalation: Assure fresh air breathing. If breathing stops, give artificial respiration. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact: Take off contaminated clothing and wash it before reuse. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.



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Hinriflux paste

First-aid measures after eye contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
4.2 First-aid measures after ingestion: Most important symptoms and effects, both acute and delayed:	Rinse mouth. Get medical advice/attention if you feel unwell. No data 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:	Making extinguishing agents environment-friendly. Foam. Fire-extinguishing powder. Carbon dioxide. Water spray.
Unsuitable extinguishing media:	Do not use a heavy water stream.
5.2 Special hazards arising from the substance or mixture:	Hydrogen fluoride, sodium oxides
5.3 Advice for firefighters: Firefighting instructions	Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
Protection during firefighting:	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures:	Provide adequate ventilation. Evacuate unnecessary personnel. Use personal protective equipment as required. Avoid the formation of aerosol/dust. Do not breathe dust/gas/vapour/aerosol.
6.2 Environmental precautions:	Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
6.3 Methods and material for containment and cleaning up:	Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
6.4 Reference to other sections:	Concerning safe handling, see section 7. Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling: Additional hazards when processed: Hygiene measures:	Ensure good ventilation of the work station. Handle in accordance with good industrial hygiene and safety procedures. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace.
7.2 Conditions for safe storage, including any incompatibilities: Storage conditions:	Store in original container. Store tightly closed in a dry and cool place (20 °C). Keep out of reach of children (risk of ingestion).
7.3 Specific end use(s):	No additional information available.



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Hinriflux paste

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with critical values that require monitoring at the workplace:	
7681-49-4 Sodium fluoride	
Local name (United Kingdom)	Fluoride (inorganic as F)
WEL TWA (mg/m ³) (United Kingdom)	2.5 mg/m ³
Local name (EU)	Fluorides, inorganic
IOELV (mg/m ³) (EU)	2.5 mg/m ³
Local name (Ireland)	Fluorides, inorganic
OEL TWA (Ireland)	2.5 mg/m ³
Local name (Malta)	Fluorides, inorganic
OEL TWA (Malta)	2.5 mg/m ³

8.2 Exposure controls

Appropriate engineering controls:

Use adequate ventilation to minimize dust/aerosol concentrations.

Personal protective equipment:

Hand protection:

Wear suitable gloves (EN 374).

Glove material:

Nitrile rubber. 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.

Eye protection:

Chemical goggles or safety glasses (EN 166).

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear respiratory equipment with filter type P3.

Skin and body protection:

Wear suitable protective clothing.

SECTION 9: Physical and chemical properties:

9.1 Information on basic physical and chemical properties:

Appearance:	Liquid. Pasty. Green.
Odour:	Odourless.
Odour threshold:	No data available.
pH:	No data available.
Melting point/Freezing point:	180 °C
Boiling point:	No data available.
Flash point:	Change of state: 600 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	Not applicable.
Upper / lower flammability or explosive limits:	No data available.
Vapour pressure:	No data available.
Vapour density:	No data available.
Relative density:	No data available.
Solubility:	Insoluble.
Partition coefficient n-octanol/water:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Oxidising properties:	No data available.
Explosive properties:	No data available.

9.2 Other information:

No additional information available.



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Hinriflux paste

SECTION 10: Stability and reactivity:

10.1	Reactivity:	No dangerous reactions known under normal conditions of use.
10.2	Chemical stability:	Stable under use and storage conditions as recommended in section 7. No decomposition if stored and applied as directed.
10.3	Possibility of hazardous reactions:	None under normal use.
10.4	Conditions to avoid:	No information available.
10.5	Incompatible materials:	Acids.
10.6	Hazardous decomposition products:	Hydrogen fluoride.

SECTION 11: Toxicological information:

11.1	Information on toxicological effects	
	Acute toxicity:	Not classified Based on available data, the classification criteria are not met.
	Skin corrosion/irritation:	Not classified Based on available data, the classification criteria are not met.
	Serious eye damage/irritation:	Not classified Based on available data, the classification criteria are not met.
	Respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met.
	Germ cell mutagenicity:	Not classified Based on available data, the classification criteria are not met.
	Carcinogenicity:	Not classified Based on available data, the classification criteria are not met.
	Reproductive toxicity:	Not classified Based on available data, the classification criteria are not met.
	Specific target organ toxicity (single exposure):	Not classified Based on available data, the classification criteria are not met.
	Specific target organ toxicity (repeated exposure):	Not classified Based on available data, the classification criteria are not met.
	Aspiration hazard:	Not classified Based on available data, the classification criteria are not met.
	Potential adverse human health effects and symptoms:	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information:

12.1	Toxicity:	
	Aquatic toxicity:	No information available.
12.2	Persistence and degradability:	No information available.
12.3	Bioaccumulative potential:	No information available.
12.4	Mobility in soil:	No information available.
12.5	Results of PBT and vPvB assessment:	
	PBT:	No information available.



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Hinriflux paste

vPvB: No information available.
12.6 Other adverse effects: No information available.

SECTION 13: Disposal considerations:

13.1 Waste treatment methods
Regional legislation (waste): Dispose in a safe manner in accordance with local/national regulations.
Waste code: The valid EWC waste code numbers are source related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users.

SECTION 14: Transport information:

14.1 UN number:
ADR, IMDG, IATA: Not applicable.
14.2 UN proper shipping name
ADR, IMDG, IATA: Not applicable.
14.3 Transport hazard class(es)
ADR, IMDG, IATA: Not applicable.
14.4 Packing group:
ADR, IMDG, IATA: Not applicable.
14.5 Environmental hazards:
No
Marine pollutant: No
Other information: No supplementary information available.
14.6 Special precautions for user: Not applicable.
14.7 Transport in bulk according to Annex II of
MARPOL and the IBC Code: Not applicable.

SECTION 15: Regulatory information:

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU-Regulations: This mixture is classified as not hazardous according to regulation (EC) 1272/2008.
National regulations: No additional information available
15.2 Chemical safety assessment: A chemical safety assessment has not been carried out.

SECTION 16: Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications - usage in such may cause risks not mentioned in this sheet. Do not use for other application(s) without seeking advice from manufacturer.

Adjustments compared to earlier versions
Section 1-16 New edition, complete revision

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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Hinriflux paste

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)
DNEL:	Derived No-Effect Level (REACH)
PNEC:	Predicted No-Effect Concentration (REACH)
Acute Tox. 3	Acute toxicity (oral), Category 3
Eye Irrit. 2	Eye damage/irritation Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2

Full text of H- and EUH-phrases:

H301	Toxic if swallowed.
H315	Causes skin irritation
H319	Causes serious eye irritation.
EUH032	Contact with acids liberates very toxic gas.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.