

## Page 1/7 Safety data sheet according to 1907/2006/EC, Article 31 Revision: 10.04.2018 Version number 3 Printing date 10.04.2018 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: Flußmittel Fluoron **Fluxe Fluoron** · Article number: 3160400302 · 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: Wieland Edelmetalle GmbH Schwenninger Str. 13 75179 Pforzheim Telefon +49 (07231)-1393-0, Telefax +49 (07231)-1393-100 · Further information obtainable from: Wieland Edelmetalle GmbH www.wieland-edelmetalle.de msds@wieland-edelmetalle.de • 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS08 health hazard

Repr. 1B H360FD May damage fertility. May damage the unborn child.

#### · 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



- · Signal word Danger
- · Hazard-determining components of labelling:

disodium tetraborate decahydrate

- boric acid · Hazard statements
- H360FD May damage fertility. May damage the unborn child.
- · Precautionary statements
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- 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.

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• **vPvB:** Not applicable.

#### **SECTION 3: Composition/information on ingredients**

#### · 3.2 Chemical characterisation: Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:			
CAS: 1303-96-4	, , , , , , , , , , , , , , , , , , ,	10-25%	
EINECS: 215-54	0-4 🐼 Repr. 1B, H360FD		
CAS: 10043-35-3		5-10%	
EINECS: 233-13	9-2 🐼 Repr. 1B, H360FD		
CAS: 7664-38-2	phosphoric acid	1-5%	
EINECS: 231-63	3-2 🚯 Skin Corr. 1B, H314		
CAS: 1336-21-6	ammonia	<1%	
EINECS: 215-64	7-6 📀 Skin Corr. 1B, H314; 🍫 Aquatic Acute 1, H400		
· SVHC			
1303-96-4 disodium tetraborate decahydrate			
10043-35-3 bori	043-35-3 boric acid		

• 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

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

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

- After swallowing: Seek immediate medical advice.
- $\cdot$  4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- $\cdot$  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.

• 5.2 Special hazards arising from the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded.

- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

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

· 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation

- $\cdot$  6.2 Environmental precautions: 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). Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

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· 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.

- · 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: Not required.
- · Further information about storage conditions:
- Store under lock and key and with access restricted to technical experts or their assistants only.
- · Storage class: 6.1 D
- 7.3 Specific end use(s) No further relevant information available.

# **SECTION 8: Exposure controls/personal protection**

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

## 7664-38-2 phosphoric acid

WEL Short-term value: 2 mg/m<sup>3</sup> Long-term value: 1 mg/m<sup>3</sup>

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

## · 8.2 Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:

Do not eat or drink while working.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

· Respiratory protection:

Suitable respiratory protective device recommended. Filter P3

· Protection of hands:



Protective gloves

- · Material of gloves Chloroprene rubber, CR Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Natural rubber, NR
- · Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Goggles recommended during refilling

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· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties				
<ul> <li>9.1 Information on basic physical and chemical properties</li> <li>General Information</li> <li>Appearance:</li> </ul>				
Form:	Fluid			
Colour:	Yellowish			
· Odour:	Characteristic			
· pH-value at 20 °C:	8			
<ul> <li>Change in condition Melting point/freezing point: Initial boiling point and boiling range</li> </ul>	Undetermined. e: 110 °C			
· Flash point:	Not applicable.			
· Auto-ignition temperature:	Product is not selfigniting.			
· Explosive properties:	Product does not present an explosion hazard.			
• Explosion limits: Oxidising properties	None			
• Density at 20 °C:	1,13 g/cm <sup>3</sup>			
<ul> <li>Solubility in / Miscibility with water:</li> </ul>	Fully miscible.			
<ul> <li>Solvent content: Organic solvents:</li> <li>9.2 Other information</li> </ul>	0,0 % No further relevant information available.			

## **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.
- $\cdot$  10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

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

#### · LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)			
Oral	LD50	59,533 mg/kg (rat)	
1303-96-4 disodium tetraborate decahydrate			
Oral	LD50	2,660 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (Rabbit)	
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IC50 (24h)	242 mg/l (Daphnia magna (water flea))	

LC50 (32d) 54 mg/l (Onchorhynchus mykiss (rainbow trout)) (B/l)

LC50(24d) 88 mg/l (Onchorhynchus mykiss (rainbow trout)) (B/l)

10043-35-3 boric acid

Oral LD50 2,660 mg/kg (rat)

- · Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- $\cdot$  CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- $\cdot$  Germ cell mutagenicity Based on available data, the classification criteria are not met.
- $\cdot$  Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity
- May damage fertility. May damage the unborn child.
- STOT-single exposure Based on available data, the classification criteria are not met.
- $\cdot$  STOT-repeated exposure Based on available data, the classification criteria are not met.
- $\cdot$  Aspiration hazard Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity:

1303-96-4 disodium tetraborate decahydrate

LC50 74 mg/l (96h) (Limanda limanda) (B/l)

#### 10043-35-3 boric acid

LC50 1,021 mg/l (96h) (Lepomis macrochirus (bluegrill))

279 mg/l (96h) (Ptychocheilus lucius(Colorado pikeminno))

EC50 133 mg/l (48h) (Daphnia magna (water flea))

LC50 53.2 mg/l (21d) (Daphnia magna (water flea))

• 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.
- · Additional ecological information:
- · General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- $\cdot \ \textbf{Recommendation}$

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

- · Uncleaned packaging:
- · Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product. Packaging may be reused or recycled after cleaning.

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· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information				
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void			
<ul> <li>· 14.2 UN proper shipping name</li> <li>· ADR</li> <li>· ADN, IMDG, IATA</li> </ul>	Void Void			
<ul> <li>· 14.3 Transport hazard class(es)</li> <li>· ADR, ADN, IMDG, IATA</li> </ul>				
· Class	Void			
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	Void			
· 14.5 Environmental hazards: · Marine pollutant:	No			
· 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.				
· Transport/Additional information:	Not dangerous according to the above specifications.			
· UN "Model Regulation":	Void			

#### **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.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 30

· National regulations:

• Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Other regulations, limitations and prohibitive regulations

#### · Substances of very high concern (SVHC) according to REACH, Article 57

1303-96-4 disodium tetraborate decahydrate

10043-35-3 boric acid

• 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.

#### · Relevant phrases

- H314 Causes severe skin burns and eye damage.
- H360FD May damage fertility. May damage the unborn child.
- H400 Very toxic to aquatic life.

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(Contd. of page 6) · 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 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 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Skin Corr. 1B: Skin corrosion/irritation - Category 1B Repr. 1B: Reproductive toxicity - Category 1B Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 • \* Data compared to the previous version altered. GE