







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

- **Product identifier**
- **Trade name: Schmelzpulver Nr. 1**  
**Melting powder No. 1**
- **Article number:** 3140400103
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Flux
- **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
- **Emergency telephone number:**  
GIZ-Nord, Göttingen, Germany  
+49 551 19240  
Member of EPECS Network

### 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
-  GHS03 flame over circle  
 Ox. Sol. 2 H272 May intensify fire; oxidiser.
-  GHS08 health hazard  
 Repr. 1B H360FD May damage fertility. May damage the unborn child.
-  GHS07  
 Eye Irrit. 2 H319 Causes serious eye irritation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
-  T; Toxic  
 R60-61: May impair fertility. May cause harm to the unborn child.
-  Xi; Irritant  
 R36: Irritating to eyes.
-  O; Oxidising  
 R8: Contact with combustible material may cause fire.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS03   GHS07   GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
boric acid
- **Hazard statements**  
H272   May intensify fire; oxidiser.  
H319   Causes serious eye irritation.  
H360FD   May damage fertility. May damage the unborn child.
- **Precautionary statements**  
P221   Take any precaution to avoid mixing with combustibles.  
P210   Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280   Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338   IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P405   Store locked up.  
P501   Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

#### · **Dangerous components:**

CAS: 7757-79-1 EINECS: 231-818-8	potassium nitrate	O R8 Ox. Sol. 2, H272	25-50%
CAS: 24551-51-7	Natriumcarbonat	Xi R36 Eye Irrit. 2, H319	≤25%
CAS: 10043-35-3 EINECS: 233-139-2	boric acid	T Repr. Cat. 2 R60-61 Repr. 1B, H360FD	≤25%

#### · **SVHC**

10043-35-3	boric acid
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### 4 First aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.

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- **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. If symptoms persist, consult a doctor.
- **After swallowing:** Seek immediate medical advice.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mount respiratory protective device.
- **Additional information**  
Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Avoid formation of dust.  
Keep away from ignition sources.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **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.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Prevent formation of dust.  
Store in cool, dry place in tightly closed receptacles.  
Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **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:** Keep receptacle tightly sealed.
- **Storage class:** 5.1 B


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· **Specific end use(s)** No further relevant information available.

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### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
  - **Control parameters**
  - **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - **Additional information:** The lists valid during the making were used as basis.
  - **Exposure controls**
  - **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:**  
Use suitable respiratory protective device in case of insufficient ventilation.  
Filter P2
  - **Protection of hands:**
- 

Protective gloves
- **Material of gloves**  
Chloroprene rubber, CR  
Butyl rubber, BR  
Nitrile rubber, NBR  
Natural rubber, NR  
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.
  - **Penetration time of glove material**  
The determined penetration times according to EN 374 part III 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
  - **Eye protection:** Safety glasses
  - **Body protection:** Protective work clothing

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Solid
<b>Colour:</b>	Light grey
<b>Odour:</b>	Odourless
- **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
- **Flash point:** Not applicable.

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- |  |   |
|--|---|
| · <b>Flammability (solid, gaseous):</b>          | Contact with combustible material may cause fire. |
| · <b>Self-igniting:</b>                          | Product is not selfigniting.                      |
| · <b>Danger of explosion:</b>                    | Product does not present an explosion hazard.     |
| · <b>Density:</b>                                | -   |
| · <b>Solubility in / Miscibility with water:</b> | Partly soluble.                                   |
| · <b>Other information</b>                       | No further relevant information available.        |

### 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Reacts with reducing agents.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
  - Nitrogen oxides
  - Nitrogen oxides (NOx)

### 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**
- |  |      |                  |
|--|------|------------------|
| · <b>LD/LC50 values relevant for classification:</b> |      |                  |
| <b>10043-35-3 boric acid</b>                         |      |                  |
| Oral   | LD50 | 2660 mg/kg (rat) |
- **Primary irritant effect:**
  - **on the skin:** No irritant effect.
  - **on the eye:** Irritating effect.
  - **Sensitization:** No sensitizing effects known.
  - **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Irritant  
Product is suspected to cause birth defects.
  - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Repr. 1B

### 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity:**
- |                              |   |
|------------------------------|---|
| <b>10043-35-3 boric acid</b> |   |
| EC50                         | 133 mg/l (48h) (Daphnia magna (water flea))       |
| LC50                         | 53.2 mg/l (21d) (Daphnia magna (water flea))      |
|                              | 1021 mg/l (96h) (Lepomis macrochirus (bluegrill)) |

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

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Must be specially treated adhering to official regulations.
- **Uncleaned packaging:**
- **Recommendation:**  
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

- **UN-Number**
- **ADR, IMDG, IATA** UN1486
- **UN proper shipping name**
- **ADR** 1486 POTASSIUM NITRATE, mixture
- **IMDG, IATA** POTASSIUM NITRATE, mixture
- **Transport hazard class(es)**
- **ADR**
- 
- **Class** 5.1 (O2) Oxidising substances.
- **Label** 5.1
- **IMDG, IATA**
- 
- **Class** 5.1 Oxidising substances.
- **Label** 5.1
- **Packing group**
- **ADR, IMDG, IATA** III

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· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Warning: Oxidising substances.
· <b>Danger code (Kemler):</b>	50
· <b>EMS Number:</b>	F-A,S-Q
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5 kg
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	E
· <b>UN "Model Regulation":</b>	UN1486, POTASSIUM NITRATE, mixture, 5.1, III

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **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**

10043-35-3	boric acid
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- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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**

H272 May intensify fire; oxidiser.  
 H319 Causes serious eye irritation.  
 H360FD May damage fertility. May damage the unborn child.

R36 Irritating to eyes.  
 R60 May impair fertility.  
 R61 May cause harm to the unborn child.  
 R8 Contact with combustible material may cause fire.

- **Contact:** Herr Marcus Müller

#### · **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)  
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO: International Civil Aviation Organization  
 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  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)

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**Trade name: Schmelzpulver Nr. 1**  
**Melting powder No. 1**LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent

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· \* **Data compared to the previous version altered.**

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