

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 14.04.2010

Revision: 14.04.2010

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**

- **Trade name:** Schmelzpulver Nr. I

- **Application of the substance / the preparation** Flux

- **Manufacturer/Supplier:**

Wieland Dental + Technik GmbH & Co.KG

Schwenninger Str. 13

75179 Pforzheim

Telefon + 49 (07231)-37050, Telefax + 49 (07231)-357959

- **Further information obtainable from:**

Abteilung Umweltschutz

Marcus.Mueller@wieland-dental.de

- **Information in case of emergency:**

+49 (07231)-37050

(Be kindly advised that this number can only be contacted at usual office hours.)

2 Hazards identification

- **Hazard description:**



T Toxic

O Oxidising

- **Information concerning particular hazards for human and environment:**

R 60 May impair fertility.

R 61 May cause harm to the unborn child.

R 8 Contact with combustible material may cause fire.

R 36 Irritating to eyes.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **GHS label elements**



Danger

H272 - May intensify fire; oxidiser.



Danger

H360 - May damage fertility or the unborn child.



Warning

H319 - Causes serious eye irritation.

- **Prevention:**

P221 Take any precaution to avoid mixing with combustibles.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P220 Keep/Store away from clothing/combustible materials.

- **Response:**

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- **Storage:**

P405 Store locked up.

- **Disposal:**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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3 Composition/information on ingredients

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

· Dangerous components:

CAS: 7757-79-1 EINECS: 231-818-8	potassium nitrate	 O; R 8 Danger:  2.14/2	25-50%
CAS: 24551-51-7	Natriumcarbonat	 Xi; R 36 Warning:  3.3/2	10-25%
CAS: 10043-35-3 EINECS: 233-139-2	boric acid	Repr. Cat. 2;  T; R 60-61 Danger:  3.7/1B	10-25%

4 First-aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **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:**
Rinse out mouth and then drink plenty of water.
Seek immediate medical advice.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
During heating or in case of fire poisonous gases are produced.
- **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

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Avoid formation of dust.
Keep away from ignition sources.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Pick up mechanically.

7 Handling and storage

- **Handling:**
- **Information 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.

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- **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.

8 Exposure controls/personal protection

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

· General Information

Form:	Solid
Colour:	Light grey
Odour:	Odourless

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.

Flash point:	Not applicable.
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Flammability (solid, gaseous):	Contact with combustible material may cause fire.
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Self-igniting:	Product is not selfigniting.
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Danger of explosion:	Product does not present an explosion hazard.
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Density:	-
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· **Solubility in / Miscibility with water:** Partly soluble.

· **Solvent content:**
Organic solvents: 0.0 %

· **Solids content:** 100.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** Reacts with reducing agents.
- **Dangerous decomposition products:**
 Nitrogen oxides
 Nitrogen oxides (NOx)

11 Toxicological information

· **Acute toxicity:**

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

10043-35-3 boric acid

Oral	LD50	2660 mg/kg (Ratte)
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· **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.

12 Ecological information

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

· **Product:**

· **Recommendation** Must be specially treated adhering to official regulations.

· **European waste catalogue**

10 00 00	WASTES FROM THERMAL PROCESSES
10 07 00	wastes from silver, gold and platinum thermal metallurgy
10 07 04	other particulates and dust
06 00 00	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 03 00	wastes from the MFSU of salts and their solutions and metallic oxides
06 03 13	solid salts and solutions containing heavy metals

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- **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

· Land transport ADR/RID (cross-border)



- **ADR/RID class:** 5.1 (O2) Oxidising substances.
- **Danger code (Kemler):** 50
- **UN-Number:** 1486
- **Packaging group:** III
- **Hazard label** 5.1
- **Description of goods:** 1486 POTASSIUM NITRATE, mixture
- **Limited quantities (LQ)** LQ12
- **Transport category** 3
- **Tunnel restriction code** E

· Maritime transport IMDG:

- **IMDG Class:** 5.1
- **UN Number:** 1486
- **Packaging group:** III
- **EMS Number:** F-A,S-Q
- **Marine pollutant:** No
- **Proper shipping name:** POTASSIUM NITRATE, mixture

· Air transport ICAO-TI and IATA-DGR:



- **ICAO/IATA Class:** 5.1
- **UN/ID Number:** 1486
- **Label** 5.1
- **Packaging group:** III
- **Proper shipping name:** POTASSIUM NITRATE, mixture

- **UN "Model Regulation":** UN1486, POTASSIUM NITRATE, mixture, 5.1, III

15 Regulatory information

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:

T Toxic
O Oxidising

· Hazard-determining components of labelling:

boric acid

· Risk phrases:

60 May impair fertility.

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61 May cause harm to the unborn child.

8 Contact with combustible material may cause fire.

36 Irritating to eyes.

· **Safety phrases:**

53 Avoid exposure - obtain special instructions before use.

16 Keep away from sources of ignition - No smoking.

17 Keep away from combustible material.

20 When using do not eat or drink.

22 Do not breathe dust.

25 Avoid contact with eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36 Wear suitable protective clothing.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

60 This material and its container must be disposed of as hazardous waste.

· **National regulations:**

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

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 R-phrases**

36 Irritating to eyes.

60 May impair fertility.

61 May cause harm to the unborn child.

8 Contact with combustible material may cause fire.

· **Department issuing MSDS:** Abteilung Umweltschutz

· **Contact:** Herr Marcus Müller

· **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)

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

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