

# Safety Data Sheet (91/155/EEC)

Material: TETRABOR-PASTE

Date of last alteration: 08.16.2007

## 1 Identification of the substance/preparation and company

### 1.1 Name of substance/preparation

Commercial product name: TETRABOR-PASTE

### 1.2 Use of substance / preparation:

lapping compound

### 1.3 Company name

Manufacturer/distributor: ESK Ceramics GmbH & Co. KG / Titan Tool Supply, Inc.  
Street/POB-No.: Max-Schaidhauf-Str. 25 68 Comet Avenue  
State/postal code/city: D 87437 Kempten/Allgäu Buffalo, NY 14216  
Telephone: +4983156180 716-873-9907  
Telefax: +498315618345 716-873-9998

|  | Telefax      | Telephone    |
|--|--------------|--------------|
| Information about the Safety Data Sheet: | 716-873-9998 | 716-873-9907 |

### 1.4 Emergency telephone number

|                       |                          | Emergency Number |
|-----------------------|--------------------------|------------------|
| Emergency Information | National Response Center | 1-800-424-8802   |
| Emergency Information |                          |                  |

## 2 Composition/information on ingredients

### 2.1 Chemical characterization (preparation):

| Chemical characteristics                  |
|---|
| Mixture of boron carbide and polyalcohols |

## 3 Hazards identification

### 3.1 Classification:

| R-Phrase | Description |
|----------|-------------|
| R-       | -           |

## 4 First-aid measures

### 4.1 General information:

-

### 4.2 After inhalation:

No special measures required.

### 4.3 After contact with the skin:

Wash with plenty of water or water and soap.

### 4.4 After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

### 4.5 After swallowing:

If you feel unwell: Drink plenty of water in small portions and induce vomiting.

## 5 Fire-fighting measures

### 5.1 Suitable extinguishing media:

water, extinguishing powder, sand, foam, carbon dioxide.

### 5.2 Extinguishing media which must not be used for safety reasons:

According to our present state of knowledge: none known.

# Safety Data Sheet (91/155/EEC)

**Material:** TETRABOR-PASTE

Date of last alteration: 08.16.2007

**5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:**

-

**5.4 Special protective equipment for fire fighting:**

Use respiratory protection independent of re-circulated air.

## 6 Accidental release measures

**6.1 Personal precautions:**

No special measures required.

**6.2 Environmental precautions:**

No special measures required.

**6.3 Methods for cleaning up:**

Take up mechanically and dispose of according to local/state/federal regulations.

## 7 Handling and storage

**7.0 General information:**

No special protective measures required.

**7.1 Handling**

**Precautions for safe handling:**

**Precautions against fire and explosion:**

No special precautions against fire and explosion required.

**7.2 Storage**

**Conditions for storage rooms and vessels:**

**Advice for storage of incompatible materials:**

**Further information for storage:**

## 8 Exposure controls and personal protection equipment

**8.1 Exposure limits**

Threshold limit values (TLV): not applicable

**8.2 Exposure limited and controlled**

**8.2.1 Exposure in the work place limited and controlled**

**General protection and hygiene measures:**

Observe standard industrial hygiene practices for the handling of chemical substances. Do not eat or drink when handling. Wash hands at the end of work and before eating.

**Personal protection equipment**

**Respiratory protection:**

not required .

**Hand protection:**

not required .

**Eye protection:**

Recommendation: protective goggles.

**8.2.2 Exposure to the environment limited and controlled:**

# Safety Data Sheet (91/155/EEC)

**Material:** TETRABOR-PASTE

Date of last alteration: 08.16.2007

## 9 Physical and chemical properties

### 9.1 General information

Physical state / form.....: paste  
Color.....: dark grey  
Odor.....: odorless

### 9.2 Important information about the protection of health, safety and the environment

**Method  
(67/548/EEC):**

Flash point.....: 240 °C  
Auto ignition temperature.....: 360 °C  
Density.....: approx. 1,60 g/cm<sup>3</sup> at 20 °C  
Water solubility / miscibility.....: completely miscible

### 9.3 Other information

Re 9.2 solubility in water: Re 9.2 Flash Point: Re 9.2 Ignition Temperature:  
Valuation related to polyalcohol.

Thermal decomposition.....: not established

## 10 Stability and reactivity

### 10.0 General information:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

### 10.1 Conditions to avoid:

-

### 10.2 Materials to avoid:

-

### 10.3 Hazardous decomposition products:

If stored and handled in accordance with standard industrial practices and local regulations where applicable: Up to 200 °C (392 °F): none known.

## 11 Toxicological information

### 11.0 General information:

According to our present state of knowledge no damaging effect expected when treated in accordance with standard industrial practices and local regulations where applicable.

### 11.1 Toxicological tests

**Further information:**

-

## 12 Ecological information

### 12.1 Eco-toxicity

No likelihood of damaging effect on water organisms.

### 12.2 Mobility

-

### 12.3 Persistence and degradability

# Safety Data Sheet (91/155/EEC)

**Material:** TETRABOR-PASTE

Date of last alteration: 08.16.2007

**Further information:**

Solids content: Separation by sedimentation.

**12.4 Bio-accumulation potential**

**Further information:**

Main component: Insoluble in water. No harmful effects expected.

**12.5 Other harmful effects**

-

**12.6 Further ecological information**

**General information:**

No environmental problems expected if handled and treated in accordance with standard industrial practices and local regulations where applicable.

## 13 Disposal considerations

**13.1 Material**

**Recommendation:**

Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

**13.2 Uncleaned packaging**

**Recommendation:**

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

## 14 Transport information

**14.1 Land transport GGVSE/ADR and RID**

**Road ADR:**

Valuation.....: Not Regulated

**Railway RID:**

Valuation.....: Not Regulated

**14.2 Inland navigation GGVBinsch/ADNR**

**14.3 Transport by sea GGVSee/IMDG-Code**

Valuation.....: Not Regulated

Marine Pollutant.....: no

**14.4 Air transport ICAO-TI/IATA-DGR**

Valuation.....: Not Regulated

**14.5 Transport/further information**

**Postal and courier service:**

postal dispatch.....: permitted

## 15 Regulatory information

**15.1 Warning Label (EU)**

| R-Phrase | Description |
|----------|-------------|
| R-       | -           |

  

| S-Phrase | Description |
|----------|-------------|
| S-       | -           |

# Safety Data Sheet (91/155/EEC)

---

**Material:** TETRABOR-PASTE

Date of last alteration: 08.16.2007

---

## 15.2 National regulations:

|   |   |
|---|---|
| SI 1999/3232:   | CHIP Regulations 1999                                       |
| SI 1999/437:  | COSHH Regulations 1999                                      |
| SI 1999/3242:   | Management of Health & Safety at Work Regulations 1999      |
| Health & Safety at Work Act 1974  |   |
| SI 1993/1643:   | Environmental Protection Act 1993 & Subsidiary Regulations. |
| Other national and local measures relating to the workplace, pollution control, environmental protection and waste control. |   |

## 16 Other information

### 16.1 Material

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.

### 16.2 Further information:

Commas appearing in numerical data denote a decimal point.

|                       |                       |
|-----------------------|-----------------------|
| n.a. = not applicable | n.s. = not subject to |
|-----------------------|-----------------------|

---

### Details of international registration status

Listed on the following inventories:

TSCA  
PICCS  
ENCS  
ECL  
DSL  
AICS  
EINECS