

**1 Identification of the substance / preparation and of the company****1.1 Product identifier****Flat Edge Filler****1.2 Relevant identified uses of the substance or mixture and uses advised against**

Cold Mounting Filler

**1.3 Details of the supplier of the safety data sheet**

<b>Company</b>	Buehler GmbH In der Steele 2 D-40599 Düsseldorf / GERMANY Phone 0800 707 6273 Fax 0800 707 6274 Homepage <a href="http://www.buehler-met.de/en/">www.buehler-met.de/en/</a> E-mail <a href="mailto:sales@buehler.co.uk">sales@buehler.co.uk</a>
<b>Responsible</b>	Schroeder@chemiebuero.de

**1.4 Emergency phone**

0800 707 6273 (Only valid if dialled within the UK) +49 (0) 211 974100

**2 Hazards identification****2.1 Classification of the substance or mixture****2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]**

not applicable

**2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC**

not applicable

**2.2 Label elements**

<b>Hazard symbols</b>	none
<b>R-phrases</b>	none
<b>S-phrases</b>	none
<b>Special labelling</b>	Safety data sheet available for professional user on request.

**2.3 Other hazards**

	none
<b>Physico-chemical hazards</b>	No particular hazards known.
<b>Human health dangers</b>	No particular hazards known.
<b>Environmental hazards</b>	Does not contain any PBT or vPvB substances.
<b>Other hazards</b>	none

**3 Composition / Information on ingredients****3.1 Substances**

The product in question is a mixture.

**3.2 Mixtures**

Range [%]	Substance
60 - 70	Zirconium dioxide CAS: 1314-23-4, EINECS/ELINCS: 215-227-2 EU-INDEX: ECB-Nr.: GHS/CLP: not applicable EEC: , R
25 - 35	Silicon dioxide CAS: 7631-86-9, EINECS/ELINCS: 231-545-4 EU-INDEX: ECB-Nr.: GHS/CLP: not applicable EEC: , R
1 - 10	Aluminium oxide CAS: 1344-28-1, EINECS/ELINCS: 215-691-6 EU-INDEX: ECB-Nr.: GHS/CLP: not applicable EEC: , R

**Comment on component parts** Substances of Very High Concern - SVHC: substances are not contained or below 0,1%.

**4 First aid measures****4.1 Description of first aid measures**

<b>General information</b>	none
<b>Inhalation</b>	Ensure supply of fresh air.
<b>Skin contact</b>	When in contact with the skin, clean with soap and water.
<b>Eye contact</b>	In case of contact with eyes rinse thoroughly with water. In the event of symptoms seek for medical treatment.
<b>Ingestion</b>	In the event of symptoms seek for medical treatment.

**4.2 Most important symptoms and effects, both acute and delayed**

None known.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**5 Fire-fighting measures****5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.
<b>Extinguishing media that must not be used</b>	Full water jet.

**5.2 Special hazards arising from the substance or mixture**

not applicable

**5.3 Advice for firefighters**

Fire residues must be disposed of in accordance within the local regulations.

**6 Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation.  
Ensure adequate ventilation.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**6.3 Methods and material for containment and cleaning up**

Take up mechanically.  
Avoid raising dust.  
Dispose of absorbed material in accordance within the regulations.

**6.4 Reference to other sections**

See Chapter 8+13

**7 Handling and storage****7.1 Precautions for safe handling**

Avoid the formation and deposition of dust.  
Provide vacuuming if dust raised.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep only in original container.

Keep container tightly closed.  
Store in a dry place.

**7.3 Specific end use(s)**

See product use, Chapter 1.2

**8 Exposure controls / personal protection****8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

Range [%]	Substance / WEL: Workplace exposure limit
60 - 70	Zirconium dioxide / - ppm, 5 mg/m <sup>3</sup> , (as Zr)
25 - 35	Silicon dioxide / - ppm, 4 mg/m <sup>3</sup> , total inhalable dust
1 - 10	Aluminium oxide / - ppm, 10 mg/m <sup>3</sup> , (inhalable dust)

**8.2 Exposure controls**

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation.
<b>Eye protection</b>	Safety glasses.
<b>Hand protection</b>	Butyl rubber, >120 min (EN 374). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	not applicable
<b>Other</b>	Avoid contact with eyes. Do not inhale dust. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. Wash hands before breaks and after work. Use barrier skin cream.
<b>Respiratory protection</b>	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter P1.
<b>Thermal hazards</b>	not applicable
<b>Delimitation and monitoring of the environmental exposition</b>	See Chapter 6+7.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form	pearls
Color	not determined
Odor	odourless
Odour threshold	not applicable
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	not determined
Flash point [°C]	not applicable
Flammability [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure [kPa]	not applicable
Density [g/ml]	1,86 (20°C / 68,0°F)
Bulk density [kg/m³]	not determined
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	not applicable
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	not applicable
Melting point [°C]	not determined
Autoignition temperature [°C]	not applicable
Decomposition temperature	not applicable

### 9.2 Other information

none

## 10 Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

The product is stable under standard conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known.

### 10.4 Conditions to avoid

No special measures necessary.

### 10.5 Incompatible materials

No special measures necessary.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## 11 Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Aluminium oxide, CAS: 1344-28-1

LD50, oral, Rat: &gt; 5000 mg/kg (IUCLID)

##### Silicon dioxide, CAS: 7631-86-9

LD50, dermal, Rabbit: &gt; 2000 mg/kg (IUCLID)

LD50, oral, Rat: &gt; 15000 mg/kg (IUCLID)

##### Zirconium dioxide, CAS: 1314-23-4

LD50, oral, Mouse: &gt; 8800 mg/kg (IUCLID)

**Serious eye damage/irritation** not determined

**Skin corrosion/irritation** not determined

**Respiratory or skin sensitisation** not determined

**STOT-single exposure** not determined

**STOT-repeated exposure** not determined

**Mutagenicity** not determined

**Reproduction toxicity** not determined

**Carcinogenicity** not determined

**General remarks**

No classification on the basis of the calculation procedure of the preparation directive.

## 12 Ecological information

### 12.1 Toxicity

#### Silicon dioxide, CAS: 7631-86-9

LC50, (96h), Brachidanio rerio: ~ 5000 mg/l (IUCLID).

IC50, (72h), Selenastrum capricornutum: 440 mg/l (IUCLID).

### 12.2 Persistence and degradability

not applicable

**Behaviour in environment compartments** not determined

**Behaviour in sewage plant** not determined

**Biological degradability** not determined

### 12.3 Bioaccumulative potential

not applicable

### 12.4 Mobility in soil

not determined

### 12.5 Results of PBT and vPvB assessment

not applicable

### 12.6 Other adverse effects

None known.

**13 Disposal considerations****13.1 Waste treatment methods**

Coordinate the waste disposal with the national authorities.

**Product**

Coordinate disposal with the authorities if necessary.

**Waste no. (recommended)**

060316

**Contaminated packaging**

Uncontaminated packaging may be taken for recycling.

**Waste no. (recommended)**

150102

**14 Transport information****14.1 UN number**

See point 14.2 in accordance with UN shipping name

**14.2 UN proper shipping name****Classification according to ADR**

NO DANGEROUS GOODS

**Classification according to IMDG**

NOT CLASSIFIED AS "DANGEROUS GOODS"

**Classification according to IATA**

NOT CLASSIFIED AS "DANGEROUS GOODS"

**14.3 Transport hazard class(es)**

See point 14.2 in accordance with UN shipping name

**14.4 Packing group**

See point 14.2 in accordance with UN shipping name

**14.5 Environmental hazards**

See point 14.2 in accordance with UN shipping name

**14.6 Special precautions for user**

Relevant information under points 6 to 8.

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

not applicable

**15 Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EEC-REGULATIONS**

1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

**TRANSPORT-REGULATIONS**

DOT-Classification, ADR (2011); IMDG-Code (2011, 35. Amdt.); IATA-DGR (2011).

**NATIONAL REGULATIONS (GB):**EH40/2005 Workplace exposure limits with amendments October 2007.  
CHIP 3/ CHIP 4**15.2 Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**16 Other informations****Observe employment restrictions for people**

no

**VOC (1999/13/CE)**

0 %

Disclaimer: 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.

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