

Buehler GmbH  
D-40599 Düsseldorf

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

**Artikelnummer: 40-10075 to 40-10080, 40-63xx-xxx, 40-632x-xxx, 40-64xx-xxx, 40-66-xx-xxx**

**Use:** See product designation  
**Identified use:** none  
**Method of operation:** See product information.  
**Company:** Buehler GmbH  
In der Steele 2  
D-40599 Düsseldorf / GERMANY  
Phone: 0800 707 6273  
Fax: 0800 707 6274  
Homepage: [www.buehler-met.de/en/](http://www.buehler-met.de/en/)  
E-mail: [sales@buehler.co.uk](mailto:sales@buehler.co.uk)  
**Emergency phone:** 0800 707 6273 (Only valid if dialled within the UK) +49 (0) 211 974100  
**Responsible:** [Schroeder@chemiebuero.de](mailto:Schroeder@chemiebuero.de)

## 2 Hazards identification

**Physico-chemical hazards:** No particular hazards known.  
**Human health dangers:** No particular hazards known.  
**Environmental hazards:** The product/the substance is not hazardous to water.  
**Other hazards:** none  
**Hazard symbols:** none  
**R-phrases:** none

## 3 Composition / Information on ingredients

Range [%]	Substance
80 - < 100	Aluminium oxide
	CAS: 1344-28-1, EINECS/ELINCS: 215-691-6 EU-INDEX: ECB-Nr.:
	GHS/CLP: -
	EEC:
1 - 10	Titanium dioxide
	CAS: 13463-67-7, EINECS/ELINCS: 236-675-5 EU-INDEX: ECB-Nr.:
	GHS/CLP: -
	EEC:
1 - 10	Titanium dioxide
	CAS: 13463-67-7, EINECS/ELINCS: 236-675-5 EU-INDEX: ECB-Nr.:
	GHS/CLP: -
	EEC:
1 - 10	Silicon dioxide
	CAS: 112945-52-5, EINECS/ELINCS: 231-545-4 EU-INDEX: ECB-Nr.:
	GHS/CLP: -
	EEC:

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

## 4 First aid measures

**General information:** none  
**Inhalation:** Ensure supply of fresh air.  
**Skin contact:** When in contact with the skin, clean with soap and water.  
**Eye contact:** In case of contact with eyes rinse thoroughly with water.  
In the event of symptoms seek for medical treatment.  
**Ingestion:** In the event of symptoms seek for medical treatment.  
**Advice to doctor:** Treat symptomatically.

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## 5 Fire-fighting measures

**Suitable extinguishing media:** Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

**Extinguishing media that must not be used:** Full water jet.

**Special exposure hazards arising from the substance or preparation itself or combustion products:** none

**Special protective equipment for firefighters:** not applicable

**Additional information:** none

## 6 Accidental release measures

**Personal precautions:** Avoid dust formation.  
Ensure adequate ventilation.

**Environmental precautions:** not applicable

**Methods for cleaning up:** Take up mechanically.  
Avoid raising dust.  
Dispose of absorbed material in accordance within the regulations.

## 7 Handling and storage

**Advice on safe handling:** Avoid the formation and deposition of dust.  
Provide vacuuming if dust raised.

**Advice on protection against fire and explosion:** No special measures necessary.

**Requirements for storage rooms and vessels:** No special measures necessary.

**Advice on storage compatibility:** No special measures necessary.

**Further information on storage conditions:** Keep container tightly closed.  
Store in a dry place.

## 8 Exposure controls / personal protection

**Additional advice on system design:** Ensure adequate ventilation on workstation.

### Ingredients with occupational exposure limits to be monitored: (GB)

Range [%]	Substance / WEL: Workplace exposure limit
80 - < 100	Aluminium oxide / - ppm, 10 mg/m <sup>3</sup> , (inhalable dust)
1 - 10	Titanium dioxide / - ppm, 4 mg/m <sup>3</sup> , respirable dust; 10 mg/m <sup>3</sup> -total inhalable
1 - 10	Silicon dioxide / - ppm, 6 mg/m <sup>3</sup> , respirable dust

**Respiratory protection:** Breathing apparatus in the event of high concentrations.  
Short term: filter apparatus, filter P1.

**Hand protection:** Butyl rubber, >120 min (EN 374).  
The details concerned are recommendations. Please contact the glove supplier for further information.

**Eye protection:** Safety glasses.

**Skin protection:** not applicable

**General protective measures:** 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.

**Hygiene measures:** Wash hands before breaks and after work.  
Use barrier skin cream.

**Delimitation and monitoring of the environmental exposition:** not determined

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## 9 Physical and chemical properties

Form:	powder
Color:	white
Odor:	odourless
pH-value:	not applicable
pH-value [1%]:	not applicable
Boiling point [°C]:	~ 3530
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]:	3,85 (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]:	2050
Autoignition temperature [°C]:	not applicable
Decomposition temperature:	not applicable

## 10 Stability and reactivity

Hazardous reactions:	No hazardous reactions known.
Hazardous decomposition products:	No hazardous decomposition products known.

## 11 Toxicological information

Acute oral toxicity:	not determined
Acute dermal toxicity:	not determined
Acute inhalational toxicity:	not determined
Irritant effect on eye:	not determined
Irritant effect on skin:	not determined
Sensitization:	not determined
Subacute toxicity:	not determined
Chronic toxicity:	not determined
Mutagenicity:	not determined
Reproduction toxicity:	not determined
Carcinogenicity:	not determined
Experiences made in practice:	not applicable
General remarks:	No classification on the basis of the calculation procedure of the preparation directive.

## 12 Ecological information

Fish toxicity:	not determined
Daphnia toxicity:	not determined
Behaviour in environment compartments:	not determined
Behaviour in sewage plant:	not determined
Bacteria toxicity:	not determined
Biological degradability:	not determined
COD:	not determined
BOD 5:	not determined
AOX-advice:	No dangerous components.
2006/11/EC:	not applicable
General information:	No classification on the basis of the calculation procedure of the preparation directive.



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### 13 Disposal considerations

**Product:** Coordinate disposal with the authorities if necessary.  
**Contaminated packaging:** Uncontaminated packaging may be taken for recycling.  
**Waste no. (recommended):** 060316

### 14 Transport information

**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"

### 15 Regulatory information

**Exposure scenario:** not determined  
**Chemical safety report:** not applicable  
**Labelling:** The product does not require a hazard warning label in accordance with EC-directives.  
**Hazard symbols:** none  
**R-phrases:** none  
**S-phrases:** none  
**Special labelling:** Safety data sheet available for professional user on request.  
**EEC-REGULATIONS:** 1967/548 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EWG (2008/47/EG)  
**TRANSPORT-REGULATIONS:** DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2010).  
**NATIONAL REGULATIONS (GB):** EH40/2005 Workplace exposure limits with amendments October 2007.  
CHIP 3/ CHIP 4  
**Authorisation, TITEL VII:** not applicable  
**Restrictions, TITEL VIII:** not applicable

### 16 Other informations

**Observe employment restrictions for people:** no  
**VOC (1999/13/CE):** 0%