

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

Item description: ELEMENTS Zircon blanks

Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

Application of the substance for Cad Cam Milling

Manufacturer: **Dentify GmbH**
Scheffelstr. 22
78234 Engen / Germany

Information: Tel: + 49-7733-977 62 40, Fax: +49-7733-977 62 44
(Mo – Do 8:00 – 16:30, Fr 8:00 – 15:00)

Emergency: Tel: + 49-7733-977 62 40
(Mo – Do 8:00 – 16:30, Fr 8:00 – 15:00)

2. Hazards identification

Identification of Dangers No classification

Desc. of remarques concerning dangers for human and environnement
None

System of classification The classification comply with the lists of CE, but is completed with indications from specialized literature and society indications

3. Composition/ information on ingredients

Description: Presintered ZrO₂ Bloc

Dangerous components:

CAS: 1344-28-1	Aluminium oxide (Al ₂ O ₃)
EINECS:	215-691-6
CAS: 1314-23-4	Zirconium oxide (ZrO ₂)
EINECS:	215-227-2
CAS: 1314-36-9	Yttrium Oxyde (Y ₂ O ₃)
EINECS:	215-233-5

Compound of Aluminium

4. First aid measures

Description of first aid measures No particular measures required

After inhalation: Take affected persons into fresh air and keep quiet.
Consult a doctor if symptoms persist.

After skin contact: Wash with water. In case of troubles, consult an medical.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Consult an medical.

5. Firefighting measures

Extinguishing media

Suitable extinguishing agents: Fire extinguishing measures suited to environment. The product itself does not burn.

Special hazards arising from the substance or mixture No further relevant information available.
Not known.

Advice for firefighters
Protective equipment: Wear self-contained respiratory protective device.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Not required
Environmental precautions: Avoid penetration in water pipes.
Methods and material for containment and cleaning up: Pick up mechanically
Reference to other sections None

7. Handling and Storage

Handling:
Precautions for safe handling Only the trained staff can handle this product. Keep out of reach of children.

Working hygiene
Respect the adequate measures of hygiene. Do not eat, drink or smoke during the use.

Conditions for safe storage, including any incompatibilities

Storage:
Requirements to be met by storerooms and receptacles: No particular requirements for the rooms of storage and bowls.

Further information about storage conditions: Not required
Storage class: No information available.
Specific end use(s) Watch a good ventilation of the workstation for the case of dust formation.
Further indications No additional indications in the conditions of storage is required.

8. Exposure controls/ personal protection

Control parameters
No complimentary indication is required

Additional information: The lists valid during the making were used as basis.
Exposure controls Components with relative values of exposure at the workstation to be checked: zirconium oxide (CAS: 1314-23-4)
MAK: mg/m³; 25 ; (DFG)

Personal protective equipment:
General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: respiratory protection in case of dust formation
Eye protection: safety glasses
Protection of hands: not required
Body Protection not required
Additional notices The valid lists at the time of the creation serve as basis

9. Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance: Solid
Color white
Geruch Odourless

pH-value: Not applicable
Change in condition
Melting point: undetermined
Boiling point: undetermined

Safety Data Sheet

According to 1907/2006/EG, Article 31



Flash point:	Not applicable.
Flammability (solid, gaseous):	Not determined
Flash point:	Not determined
Flammability (solid, gaseous):	Not determined.
Ignition temperature:	
Decomposition temperature:	Not determined.
Self-igniting:	Not determined.
Danger of explosion:	Not determined.
Density at 20°C:	3,0 g/cm ³
Solubility in / Miscibility with water:	Insoluble in Water.
Other information	No further relevant information available.

10. Stability and reactivity

Reactivity	No dangerous reactions known.
Possibility of hazardous reactions	No data available.
Hazardous decomposition products:	No decomposition in case of appropriate use

11. Toxicological information

Information on toxicological effects	
Acute toxicity:	Primary allergic reaction.
Primary irritant effect:	
on the skin:	No allergic reaction.
on the eye:	No allergic reaction.
Sensitization:	No sensibilisation réaction known
Sonstige Angaben	According to the process of calculation of the last current version of the general directive EEC of classification of the preparations, the product is subjected to no obligation of marking. In case of appropriate manipulation and use the product has no harmful effect for the health in view of our experience and information which we have.

12. Ecological information

Aquatic toxicity:	Not determined
Bioaccumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
Additional ecological information:	
Results of PBT and vPvB assessment	
PBT:	Not applicable.
vPvB:	Not applicable.
Other adverse effects	No further relevant information available.

At the moment no predictable eco-toxicologic problems. Do not let penetrate the groundwater or the pipes.

13. Disposal considerations

Waste treatment methods	
Recommendation	Waste disposal according to official state regulations. Do not let penetrate the groundwater or the pipes.
Uncleaned packaging:	
Recommendation:	Dispose unclean packages in compliance with the local, official regulations.

14. Transport information

Ground Transport:		
GGVE / GGVS	Class: --	Number: --
RID / ADR	Class: --	Number: --

Safety Data Sheet

According to 1907/2006/EG, Article 31



Sea Transport:		
GGVSee	Class: --	Number: --
Sea Pollutant	No	
Air Transport		
ICAO-TI / IATA-DGR	Class: --	
UN-Number	None	
UN proper shipping name	None	
Transport hazard class (es)	None	
Environmental hazards:	None	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.	

This product requires no classification for the transport.

15. Regulatory information

Identification of CE Directives	Observe the usual precautionary measures in case of use of chemicals. The product is not subjected to the labeling prescribed by CE directives.
Phrases S (Council of Caution)	S29: Do not let penetrates in the pipes
National dispositions	Class of danger for water not defined

16. Other information

Manufacturer recommendation, restriction for the purpose of use:
Only for industrial application. Not a popular product.

Phrases S (Council of Caution)	S29: Do not let penetrates in the pipes
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The above given data are based upon our stand of knowledge and experience from the issuing date, they do not have any relevance of characteristics warranty. No responsibility will be taken for the faultlessness and integrity.