

Carborundum Grit (TNL 173006 – 173022)

1. Identification

Carborundum Grit

Alternative names Duralum

2. Composition/Information on Ingredients

The composition of Carborundum Grit according to EC directive is Aluminium oxide. CAS no 1344-28-1

3. Hazards Identification

There are no known critical hazards to man and environment.

4. First-Aid Measures

Eye contact	Flush eye with water or approved eye wash solution. Seek medical advise should irritation occur and persist.
Skin contact	No special action required.
Inhalation	No special action required.
Ingestion	No special action required. Do not induce vomiting.

5. Fire-Fighting Measures

Carborundum is not classed as flammable.

Extinguishing media	Use extinguishing measures appropriate to the source of the fire.
Protective equipment for Fire-fighters	Standard.

6. Accidental Release Measures

Avoid formation of dust. Take up mechanically and dispose of in accordance with a recognised method of waste disposal. There are no special environmental precautions required.

7. Handling and Storage

Avoid dust formation. There is no danger of fire and explosion and no special precautionary measures for storage.

8. Exposure Control and Personal Protection

Observe the local bylaw in terms of dust (TWA value 10 mg/m³ ; MAK value 6mg/m³, see also item 16) and standard industrial hygiene practice. Avoid inhaling the powder using fine-dust mask with category P1 filter if fine dust limits are exceeded. Protective gloves and safety glasses are recommended

9. Physical and Chemical Properties

Physical form	Grains, granules and powder.
Colour	Brown, bluish, grey, black, white, pink
Odour	Odourless
pH of aqueous solution	Not applicable
Boiling point	Not determined
Melting point	Greater than 2000 °C
Viscosity	Not applicable
Flash point	Not applicable
Flammability solid/gas	Not applicable
Autoflammability	Not applicable
Explosive properties	Not applicable
Oxidising properties	Not applicable
Vapour pressure	Not applicable
Specific gravity	Approximately 3700 – 4500 kg/m ³
Water solubility	Insoluble
Bulk density	(600 – 2600) kg/m ³
Partition coefficient octanol/water	Not applicable
Explosive limits	Not applicable

10. Stability and Reactivity

Thermal decomposition	Stable under normal conditions of use.
Hazardous reactions	None known.

11. Toxicological Information

Oral	No specific data. Expected to be non-toxic.
Dermal	Non-toxic. Prolonged and repeated contact may cause slight irritation.
Inhalation	No free silica included (See also Item 16).
Eye contact	Unlikely to cause irritation.

12. Ecological Information

Biodegradation	Chemically inert and insoluble in water. Separation by mechanical processes (sedimentation, filtration etc.)
Fish toxicity	No data, but not expected to be harmful.
Bacterial toxicity	No data, but not expected to be harmful.

13. Disposal Considerations

Dispose of according to a recognised method of chemical waste disposal.

14. Transport Information

UN number	Not assigned
IMDG code/class	Non hazardous
ICAO/IATA (air) class	Non hazardous
RID/ADR class	Non hazardous
ADNR class	Non hazardous

15. Regulatory Information

Observe national regulations (e.g. Germany water pollution category WGK 0 self classification.)

16. Other Information

Studies by the institute for the Hygiene and Industrial Medicine of the University of Essex (finished 1994) showed that Silicon Carbide possesses no toxic or carcinogenic properties. Silicon Carbide is inert. This paper was published in : British Journal of Industrial Medicine 1993, Vol. 50, issue 9, Part 1, Pages 797 – 806 and Part 2, Page 807 – 813, under the title

Toxicological investigations on Silicon Carbide

1. Inhalation Studies.
2. In vitro cell tests and long term injection tests.

The information provided on this sheet is based on our knowledge of the product concerned at the date of issue. It is provided in good faith. Users should also bear in mind that risks may arise when a product is put to uses other than those for which it is destined.