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POWDER 501	
Side	1 from 7
Overworked:	17.11.2022
Print date:	17.11.2022

Safety Data Sheet pursuant to Regulation (EG) No 1907/2006

1. Product and company name		
I.1 Produktidentifikator - Trade name: POWDER 501 - Substance name: Silicon dioxide - CAS Number: 7631-86-9 - EC number: 231-545-4		
1.2 Relevant identified uses which are discouraged	of the substance or mixture and uses of:	
- Use of the substance/mixtu - Dealers:	Aid Filler Additive for cementitious building materials DURAPACT 2.0 Kompetenzzentrum Faserbeton GmbH Büssingstraße 4 D- 42781 Haan	
1.3 Emergency number Emergency Phone:	Phone: +49 (0) 21 29 / 56 78 10 Fax: +49 (0) 21 29 / 56 78 28 E-Mail: info@durapact.de +49 6132-84463 International Emergency Number This phone number is 24 hours a day, Staffed 7 days a week.	

2. Possible hazards

2.1. Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008)

No hazardous substance or mixture.

2.2 Kennzeichnungselemente

Labelling (REGULATION (EC) No 1272/2008)

No hazardous substance or mixture.

2.3 Other hazards

This substance/mixture does not contain components in concentrations equal to or greater than 0,1 %, which are considered either persistent, bioaccumulative and toxic (PBT) or very persistent and very persistent bioaccumulative (vPvB).



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3. Composition/information on ingredients

3.1 Chemical characterization: inorganic

- · CAS-No. Designation
- 7631-86-9 Silicon dioxide
- · Identification number(s)
- EC number: 231-545-4

4. First aid measures

4.1 Description of first aid measures

· General information: In case of accident or discomfort, consult a doctor immediately.

- · After inhalation:
- Fresh air supply, breathing if necessary, heat. In case of persistent complaints, consult a doctor. After eye contact:
- Rinse eyes with open eyelid gap for several minutes under running water for at least 15 minutes and consult a doctor.

· After ingestion:

Rinse your mouth and drink plenty of water. DO NOT induce vomiting.

In case of persistent complaints, consult a doctor.

After skin contact:

Take off soiled, soaked clothes immediately Wash off with: Polyethylene glycol 40

4.2 Main acute and delayed symptoms and effects

No other relevant information available.

4.3 Indications of immediate medical assistance or special treatment

Symptomatic treatment

5. Fire-fighting measures

5.1 Extinguishing agents

Suitable extinguishing agents:

Adapt extinguishing measures to the environment.

5.2. Specific hazards of the substance or mixture

Special hazards in firefighting:

Inhalation of decomposition products can cause damage to health

Hazardous combustion products:

No hazardous combustion products known

5.3 Instructions for firefighting

In case of fire, wear breathing apparatus independent of ambient air, personal protective equipment.

Other information –

Use water spray mist to cool fully sealed containers,

Do not allow to penetrate into surface water or groundwater.

6. Accidental release measures

6.1 Use personal precautions, protective equipment and emergencies Procedures

Wear protective equipment. Keep unprotected people away. Ensure adequate ventilation. See safeguards and points 7 and 8.

6.2 Environmental protection measures: Prevent contact with soil, surface water or groundwater.

6.3 Methods and materials for retention and cleaning:

Mechanically dust-free pickup.

In suitable containers, return for recovery or disposal.



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6.4 Reference to other sections

Seesectionse 7, 8, 11, 12 and 13.

7. Handling and storage

7.1 Protective measures for safe handling

Ensure sufficient air exchange and/or extraction in the workrooms.

Wear personal protective equipment.

Inhalation, ingestion and avoid skin and eye contact.

Do not eat, drink or smoke in the area of application.

Hygiene measures:

Keep away from food and drink. Wash hands before breaks and at the end of work. Keep work clothes separate. Contaminated clothing and gloves before reuse undress and wash off, also the inside.

- Notes on fire and explosion protection: The product is non-flammable.
- 7.2 Conditions for safe storage, taking into account incompatibilities
- · Storage:
- **Requirements for storage rooms and containers:** Tightly sealed, cool and dry, on a well keep ventilated place
- Summary Notes: Not required.
- · Lagerklasse: 13
- · Classification according to the Industrial Safety Ordinance (BetrSichV): -

7.3 Specific End Applications No other relevant information available.

8. Exposure control and personal protective equipment

8.1 Parameters to monitor

· Components with workplace-related limit values to be monitored:		
7631-86-9 Silicon dioxide, amorphous		
AGW	Long-term value: 4 mg/m ³	
	DE TRGS 900	

A risk of fruit damage must be required if the occupational exposure limit value and the biological limit value (BGW) can not be feared.

· DNELs 7631-86-9 Silicon dioxide, amorphous Inhalativ Employees, long-term, systemic effects 4 mg/m3

8.2 Exposure control and monitoring

· Personal protective equipment:

- · General protective and hygienic measures:
- The usual precautions when handling chemicals must be observed.
- · Respiratory:
- Use respiratory protection in case of exposure to dust/aerosol. Filter P3
- · Hand protection: intact, clean gloves
- Gloves made of the **following materials are suitable for permanent contact:** Gloves made of Rubber
- · Eye protection: safety goggles with side protection
- Body protection: Light protective clothing



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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties · General information		
· Appearance:		
Form:	Powder	
Color:	White	
· Odour:	Odourless	
Odour threshold:	Not determined	
· pH: · State	Not applicable	
	1 710 °C (1 012 bBa)	
Melting point/melting range:	1.710 °C (1,013 hPa)	
Boiling point/boiling range:	2230 °C (1,013 hPa)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	The substance is non-flammable.	
Ignition temperature:	Not applicable.	
Decomposition temperature:	Not determined.	
· Self-ignition:	The product is not spontaneously flammable.	
Risk of explosion:	The product is not explosive.	
• Explosive limits:		
Oxidizing properties	The substance has no oxidizing properties.	
· Vapour pressure:	Not applicable.	
· Density:	2.2 g/cm³ (20°C, 1,013 hPa)	
 Solubility in / Miscibility with 		
Water:	Insoluble (20°C, 1,013 hPa)	
 Partition coefficient (n-octanol/water): 	Not applicable.	
Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC (EU)	0.00 %	
9.2 Other information No other relevant information available.		
Molecular weight:	60,08 g/mol	
Metal corrosion rate:	No data available	
Self-combustion:	No data available	

10. Stability and reactivity

10.1 Reactivity No dangerous reactions known when handled as intended.

10.2 Chemical stability No decomposition when stored and handled as intended.

10.3 Possibility of dangerous reactions No dangerous reactions known.

10.4 Conditions to avoid No other relevant information available.

10.5 Incompatible Materials: No other relevant information available.

10.6 Hazardous decomposition products: No known hazardous decomposition products.



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11. Information on toxicology

11.1 Information on toxicological effects

Acute toxicity: not classified according to available information

· Classification-relevant LD/LC50 values:		
7631-86-9 Silicon dioxide, amorphous		
Oral	LD50	5,000 mg/kg (rat)

· Primary irritant effect:

• on the skin: No irritating effect.

• on the eye: No irritant effect.

· Sensitization: No sensitizing effect known.

· Additional toxicological notes:

When handled and used properly, the product causes

our experience and the information available to us do not have any adverse health effects.

12. Environmental Information

12.1 Toxicity

· Aquatic toxicity:	
7631-86-9 Silicon dioxide, amorphous	
LC50/96h	>10. 000 mg/l (fish, algae)

No data available

12.2 Persistence and degradability: N 12.3 Bioaccumulation potential: N

12.4 Mobility in the soil:

No data available no data available

12.5 PBT and vPvB assessment results:

This substance/mixture does not contain components in concentrations equal to or greater than 0,1 %, which are considered either persistent, bioaccumulative and toxic (PBT) or very persistent and very persistent bioaccumulative (vPvB).

13. Instructions for disposal

13.1 Waste treatment process

- Recommendation: Disposal in accordance with official regulations.
- · Uncleaned packaging:
- Recommendation: Disposal in accordance with official regulations.

14. Transport details

14.1 UN-Number · ADR, IMDG, IATA	omitted
14.2 Proper UN Shipping Designation · ADR, IMDG, IATA	omitted
14.3 Transport hazard classes · ADR, IMDG, IATA	
· Class	not applicable
14.4 Packing group	
· ADR, IMDG, IATA	omitted
14.5 Environmental hazards:	
	NI-



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classification according to

AwSV,

Appendix 1 (4)

14.6 Special precautions for the Users	Not applicable.	
14.7 Bulk transport in accordance MARPOL 73/78 and according to		
j	Not applicable.	
• UN "Model Regulation":	-	
15. Regulatory Information		
 15.1 Safety, health and environme for the substance or mixture 	ental regulations/specific legislatio	n
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and Products (Annex XVII)		Not applicable
REACH - Candidate list of substances of very high concern (Article 59).		Not applicable
REACH - List of substances subject to authorisation (Annex XIV)		Not applicable
Regulation (EC) No 1005/2009 on substances used to reduce Ozone layer		Not applicable
Regulation (EU) 2019/1021 on persist	ent organic pollutants (recast)	Not applicable
Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals		Not applicable
Water hazard class		NWG not hazardous to water ID number: 849

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of Major accident hazards involving dangerous substances. Not applicable

15.2 Chemical safety assessment: A chemical safety assessment has not been carried out.



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16.Other information

The information is based on the current state of our knowledge, but it does not represent an assurance of product properties and does not establish a contractual legal relationship.

· Abbreviations and acronyms:

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Directory of Chemical Substances; ASTM - American Society for Materials Testing; bw body weight; CLP - Regulation on classification, labelling and packaging of substances, Regulation (EC) No 1272/2008; CMR - carcinogenic, mutagenic or reproductive toxin; DIN - Standard of the German Institute for Standardization; DSL - List of domestic substances (Canada); ECHA - European Chemicals Agency; EC-Number - number of the European Community; ECx - concentration associated with x% reaction; ELx - loading rate associated with x % response; EmS - Contingency Plan; ENCS - Existing and new chemical substances (Japan); ErCx - concentration associated with x % growth rate; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships Carrying Hazardous Chemicals in Bulk; IC50 - Semi-maximum inhibitor concentration; ICAO -International Civil Aviation Organization; IECSC - List of chemical substances present in China; IMDG -Code - International Code for the Carriage of Dangerous Goods by Seagoing Vessels; IMO - International Maritime Organization; ISHL - Occupational Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - List of chemicals present in Korea; LC50 - lethal concentration for 50 % of a test population; LD50 - lethal dose for 50 % of a trial population (mean lethal dose), MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - not otherwise stated; NO(A)EC - concentration at which no (harmful) effect is detectable; NO(A)EL - dose at which no (harmful) effect is detectable; NOELR - No discernible effect charge; NZIoC - New Zealand Chemical Directory; OECD - Organisation for Economic Co-operation and Development; OPPTS - Bureau of Chemical Safety and Pollution Prevention (OSCPP); PBT - persistent, bioaccumulative and toxic substances; PICCS - List of chemicals and chemical substances present in the Philippines; (Q) SAR - (quantitative) structure-activity relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the registration, evaluation, authorisation and restriction of chemicals; RID - Regulation on the international carriage of dangerous goods by rail; SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - List of chemical substances present in Taiwan; TRGS - Technical Rules for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very persistent and very bio-accumulative