

Safety Data Sheet (1907/2006/EC)

Material: 60004600 HDK® N20
HYDROPHILIC FUMED SILICA

Version: 1.5 (REG_EUROPE) Date of print: 06.04.2009 Date of last alteration: 07.12.2008

1 Identification of the substance/preparation and company**1.1 Name of substance/preparation**

Commercial product name: HDK® N20
HYDROPHILIC FUMED SILICA

1.2 Use of substance / preparation:

Industrial.
Auxiliary agent for: Plastics , Lacquer , Building materials , elastomer products , cosmetics .

1.3 Company name

Manufacturer/distributor: Wacker Chemie AG
Street/POB-No.: Hanns-Seidel-Platz 4
State/postal code/city: D 81737 München
Telephone: +498962790
Telefax: +498962791770

Information about the Safety Data Sheet:	Telephone	+49/(0) 8677/83-4888
	Telefax	+49/8677/83-5590
	eMail	WLCP-MSDS@wacker.com

1.4 Emergency telephone number

Emergency Information (German): Works Fire Brigade +49/(0) 8677/83-2222
Emergency Information (internat.): National Response Center +49/(0) 621/60-43333

2 Hazards identification**2.1 Classification:**

R-Phrase	Description
R-	-

3 Composition/information on ingredients**3.1 Chemical characterization (substance):**

EC-No.	CAS No.	Chemical characteristics
	112945-52-5	Pyrogenic micro-dispersed silica, synthetic X-ray amorphous silicon dioxide (SiO ₂)

4 First-aid measures**4.1 General information:**

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

4.2 After inhalation:

Provide fresh air.

4.3 After contact with the skin:

Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

4.4 After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

4.5 After swallowing:

Give several small portions of water to drink. Do not induce vomiting.

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5 Fire-fighting measures

- 5.0 General information:**
Product does not burn. Use extinguishing measures appropriate to the source of the fire.
- 5.1 Suitable extinguishing media:**
not applicable
- 5.2 Extinguishing media which must not be used for safety reasons:**
not applicable
- 5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:**
not applicable
- 5.4 Special protective equipment for fire fighting:**
not applicable

6 Accidental release measures

- 6.1 Personal precautions:**
Avoid dust formation. Do not breathe dust. Wear personal protection equipment (see section 8).
- 6.2 Environmental precautions:**
Cover any spilled material in accordance with regulations to prevent dispersal by wind.
- 6.3 Methods for cleaning up:**
Damp down dust and fill into containers.

7 Handling and storage

- 7.1 Handling**
- Precautions for safe handling:**
Avoid dust formation.
- Precautions against fire and explosion:**
Electrostatic discharge possible during transport and processing. Take precautionary measures against electrostatic charging. Ensure all parts of equipment are well earthed. Use inert gas when working with combustible and explosive liquids. Avoid dust deposit, remove dust regularly.
- 7.2 Storage**
- Conditions for storage rooms and vessels:**
none known
- Advice for storage of incompatible materials:**
not applicable
- Further information for storage:**
Keep container dry and tightly closed.

8 Exposure controls and personal protection equipment

- 8.1 Exposure limits**
-
- 8.2 Exposure limited and controlled**
- 8.2.1 Exposure in the work place limited and controlled**
- General protection and hygiene measures:**
Do not breathe dust. Do not eat, drink or smoke when handling. Application of skin cream recommended to ensure optimum protection of skin.
- Personal protection equipment**
- Respiratory protection:**
In case of dust formation: fine dust mask without protection rating .

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Hand protection:

Recommendation: rubber gloves . Gloves suitable for up to 60 minutes' use.

Eye protection:

Recommendation: protective goggles .

Skin protection:

antistatic working shoes .

8.2.2 Exposure to the environment limited and controlled:

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9 Physical and chemical properties**9.1 General information**Physical state / form.....: solid - powder
Colour.....: white
Odour.....: odourless**9.2 Important information about the protection of health, safety and the environment** **Method (67/548/EEC):**Melting point / melting range.....: 1700 °C
Boiling point / boiling range.....: not applicable
Flash point.....: not applicable
Ignition temperature: not applicable
Lower explosion limit (LEL).....: not applicable
Vapour pressure.....: not applicable
Density.....: approx. 2,2 g/cm³ (DIN 51757)
Bulk density.....: 20 - 130 kg/m³
Water solubility / miscibility.....: virtually insoluble at 20 °C
pH-Value.....: 3,6 - 4,5 (DIN EN ISO 787-9)
Viscosity (dynamic).....: not applicable
Viscosity (kinematic).....:**10 Stability and reactivity****10.0 General information:**

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

10.1 Conditions to avoid:**10.2 Materials to avoid:**

none known

10.3 Hazardous decomposition products:

If stored and handled in accordance with standard industrial practices and local regulations where applicable: none known .

11 Toxicological information**11.0 General information:**

According to our present state of knowledge no damaging effect expected when treated in accordance with standard industrial practices and local regulations where applicable.

11.1 Toxicological tests**Acute toxicity (LD50/LC50-values relevant to classification):**

Exposition	Value/value range	Species	Source
oral	> 5000 mg/kg	rat (Limit Test)	literature
dermal	> 5000 mg/kg	rabbit (Limit Test)	literature
by inhalation	> 0,139 mg/l/4h	rat (Limit Test)	literature

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Specific symptoms in animal test:

Acute inhalation: At the technically highest possible concentration no mortality in animal test. .

Primary irritation:

Exposition	Effect	Species/Testsystem	Source
to skin	not irritating	rabbit	literature
to eyes	not irritating	rabbit	literature

Further information:

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Subacute to chronic toxicity:**Additional information (subacute/chronic):**

Animal tests did not reveal any indications for carcinogenic or reprotoxic effects. Chronic inhalative exposure: Changes in respiratory organs observed in animal experiments (inflammatory processes) were reversible; no indication of silicosis.

11.2 Experience with man:

By handling the product for many years no damage to health was observed.

11.3 Further toxicological information:

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12 Ecological information**12.1 Ecotoxicity**

Species	Test method	Exp. time	Result	Source
Daphnia magna	acute	24 h	> 10000 mg/l (EC50)	literature
zebra fish (Brachydanio rerio)	acute	96 h	> 10000 mg/l (LC50)	literature

No expected damaging effects to aquatic organisms.

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):

According to current knowledge adverse effects on water purification plants are not expected. Can be removed mechanically from waste water.

12.2 Mobility

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12.3 Persistence and degradability**Biodegradation / further information:**

Not applicable.

Further information:

Insoluble in water.

12.4 Bio-accumulation potential

No adverse effects expected.

12.5 Other harmful effects

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12.6 Additional information**General information:**

Insoluble in water.

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13 Disposal considerations**13.1 Material****Recommendation:**

After solidification, material can be stored together with domestic waste. Observe local/state/federal regulations.

13.2 Uncleaned packaging**Recommendation:**

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

14 Transport information**14.1 Land transport ADR and RID:****Road ADR:**

Valuation.....: Not regulated for transport

Railway RID:

Valuation.....: Not regulated for transport

14.2 Transport by sea IMDG-Code

Valuation.....: Not regulated for transport

14.3 Air transport ICAO-TI/IATA-DGR

Valuation.....: Not regulated for transport

14.4 Transport/further information**Informing dept. ref. to heading 14. Transport information:**

Department Hazardous Materials Service, Telefax: +49/(0) 8677/83-5589, Telephone: +49/(0) 8677/83-4950

15 Regulatory information**15.1 Warning Label (EC)**

R-Phrase	Description
R-	-
S-Phrase	Description
S-	-

15.2 National regulations:**15.3 Other international regulations****Details of international registration status**

Listed on or in accordance with the following inventories:

- IECSC - China
- TSCA - USA
- EINECS - Europe
- ENCS - Japan
- PICCS - Philippines
- ECL - Korea
- AICS - Australia
- DSL - Canada

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16 Other information

16.1 Material

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.

16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

- End of Safety Data Sheet -