

Safety Data Sheet

Material: 60004600	Material:	60004600
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HDK® N20 HYDROPHILIC PYROGENIC SILICA

IMCD

Version: 1.6 (AU)

Date of print: 09.12.2016

Date of last alteration: 26.09.2016

Distributed by IMCD Australia sds@imcd.com.au PO Box 689 1⁴⁷ Floor, 372 Wellington Rd. Mulgrave VIC 3170, AUSTRALIA 24 hour Emergency Telephone: 1800 625 526 www.imcdgroup.com Phone: +61 (03) 8544 3100 Fax: +61 (03) 8544 3299

1.1	Product identifier		
	Commercial product name:	HDK® N20 HYDROPHILIC PYROGENIC SILICA	
	CAS No.:	112945-52-5	
1.2	Relevant identified uses of the substance or n	nixture and uses advised against	
	Use of substance / preparation: Industrial. Auxiliary agent for: Plastics , Lacquer , Building m	naterials , elastomer products , cosmetics .	
1.3	Details of the supplier of the safety data sheet	:	
	Manufacturer: Street/POB-No.: State/postal code/city: Telephone: Telefax:	Wacker Chemie AG Hanns-Seidel-Platz 4 D 81737 München +49 89 6279-0 +49 89 6279-1770	
	Distributor: Street/POB-No.: State/postal code/city: Telephone: Telefax:	Wacker Chemie AG Care of Wacker Chemicals Australia P Unit 1 / 35 Dunlop Road Mulgrave, Victoria 3170 +61 3 9541 8900 +61 3 9541 8989	ty Ltd
	Information about the Safety Data Sheet:	Telephone Telefax eMail	+49 8677 83-4888 +49 8677 886-9722 WLCP-MSDS@wacker.com
1.4	Emergency telephone number		
	Emergency Information: Emergency response service only (24h): Emergency response service only (24h):	Regulatory Compliance Manager Ixom ERS - Australia Ixom ERS - New Zealand	+61 3 9541 8900 1800 033 111 0800 734 607
SEC	TION 2: Hazards identification		
2.1	Classification of the substance or mixture		

Non-Hazardous Chemical according to Australian GHS criteria. Non-Dangerous Goods to the ADG Code.

Not a hazardous substance or mixture.

2.2 Label elements

No labeling according to GHS required.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

3.1.1 Chemical characteristics

CAS No.: 112945-52-5

Pyrogenic micro-dispersed silica, synthetic X-ray amorphous silicon dioxide (SiO2)

3.1.2 Ingredients

This material does not contain any reportable hazardous ingredients.





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3.2 Mixtures

not applicable

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

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

After contact with the eyes:

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

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).

After inhalation:

Provide fresh air.

After swallowing:

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

4.2 Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

4.3 Advice for the doctor:

Further toxicology information in section 11 must be observed.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

not applicable

Extinguishing media which must not be used for safety reasons: not applicable

not applicable

5.2 Special hazards arising from the substance or mixture

Ambient fire may lead to hazardous fumes. Exposure to combustion products may be a health hazard! Hazardous combustion products: carbon oxides, silicon oxides, incompletely burnt hydrocarbons, toxic and very toxic fumes.

5.3 Advice for firefighters

Special protective equipment for fire fighting:

Use respiratory protection independent of recirculated air. Keep unprotected persons away.

General information:

Product does not burn. Use extinguishing measures appropriate to the source of the fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid dust formation. Do not breathe dust. Avoid contact with eyes and skin.

6.2 Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Cover any spilled material in accordance with regulations to prevent dispersal by wind. Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

6.3 Methods and material for containment and cleaning up

Damp down dust and fill into containers. Avoid dust formation.

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6.4 Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling:

Avoid dust formation. Observe information in section 8.

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 Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels:

Observe local/state/federal regulations.

Advice for storage of incompatible materials:

Observe local/state/federal regulations.

Further information for storage:

Store in a dry and cool place.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Maximum airborne concentrations at the workplace:

CAS No.	Material	Туре	mg/m ³	ppm	Dust fract.	Fibre/m ³
7631-86-9	Silica, amorphous	AGW	4.0		Inhalable	
					dust/mist	
7631-86-9	Silica, amorphous	OEL	2.4		Respirable	
	-				dust/mist	
7631-86-9	Silica, amorphous	OEL	6.0		Inhalable	
	-				dust/mist	
7631-86-9	Silica, amorphous	ES_AU	2.0		Respirable	
					dust/mist	

-

Re Amorphous silica: Exposure limits given for CAS no. 78-59-1 apply to all kinds of synthetic amorphous silica. Refer to Technical Rules for Hazardous Substances "TRGS 900" for more details on the German AGW. Re Silica, amorphous: The exposure limits given for CAS-No. 7631-86-9 cover all types of synthetic amorphous silica.

Re Silica, amorphous: The exposure limits given for CAS-No. 7631-86-9 cover all types of synthetic amorphous silica.

8.2 Exposure controls

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures:

Observe standard industrial hygiene practices for the handling of chemical substances. Do not breathe dust. Avoid contact with eyes and skin. Application of skin cream recommended to ensure optimum protection of skin. Do not eat, drink or smoke when handling.

Personal protection equipment:

Respiratory protection

Respirator must be worn if exposed to dust.





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If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used.
Suitable respiratory equipment: Filtering half-face mask, according to acknowledged standards such as EN 149. Recommended Filter type: FFP1 or equivalent filter, according to acknowledged standards such as EN 149
Observe the equipment manufacturer's information and wear time limits for respirators.
Eye protection
Recommendation: protective goggles . In case of dust formation: tight fitting protective goggles .
Hand protection
Use of protective gloves is recommended when handling the material.
Recommended glove types: Rubber gloves thickness of the material: > 1 mm Breakthrough time: > 480 min
Recommended glove types: Protective gloves made of nitrile rubber thickness of the material: > 0.1 mm Breakthrough time: > 480 min
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.
Skin protection
antistatic working shoes .
 En en

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil. Can be removed mechanically from waste water.

8.2.3 Specific notes (Australia):

Select and use respirators in accordance with AS1715/1716.

SECTION 9: Physical and chemical properties

9.1	Information on basic physical and chemical prop	erties	
	Property:	Value:	Method:
	Appearance		
	Physical state / form	solid - powder	
	Colour	white	
_	Odour		
	Odour	odourless	
	pH-Value		
	pH-Value	3.6 - 4.5	(DIN EN ISO 787-
			9)
-	Melting point/freezing point		
	Melting point / melting range	1700 °C	
-	Initial boiling point and boiling range		
	Boiling point / boiling range	not applicable	
-	Flash point		
	Flash point	not applicable	
-	Upper/lower flammability or explosive limits		
	Lower explosion limit (LEL)	not applicable	
	Upper explosion limit (UEL)	not applicable	
-	Vapour pressure		
	Vapour pressure	not applicable	
-	Solubility(ies)		
	Water solubility / miscibility	virtually insoluble at 20 °C	
-		-	





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	Vapour density			
		ensity	No data known.	
	Relative Density			
		······	approx. 2.2 (20 °C)	(DIN 51757)
			(Water / 4 °C = 1,00)	
	Density	:	approx. 2.2 g/cm ³ (20 °C)	(DIN 51757)
		:	20 - 130 kg/m ³	
	Partition coefficient: n			
		octanol/water	No data known.	
	Auto-ignition temperat			
		:	not applicable	
	Viscosity			
I	Viscosity (dynamic)	:	not applicable	
0.2	Other information			

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions

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

Relevant information can possibly be found in other parts of this section.

10.4 Conditions to avoid

10.5 Incompatible materials

none known

10.6 Hazardous decomposition products

If stored and handled properly: none known .

SECTION 11: Toxicological information

11.1 Information on toxicological effects

11.1.1 Acute toxicity

Assessment:

Based on the available data acute toxic effects are not expected after single oral exposure. Based on the available data acute toxic effects are not expected after single dermal exposure. Based on the available data acute toxic effects are not expected after short-term inhalative exposure.

Product details:

Route of exposu	ure Result/Effect	Species/Test system	Source
oral	LD ₅₀ : > 5000 mg/kg	rat	literature
dermal	LD ₅₀ : > 5000 mg/kg	rabbit	literature
by inhalation	LC ₅₀ : > 0.139 mg/l; 4 h	rat	literature
(dust)	At the technically highest possible concentration no mortality in animal test.		

11.1.2 Skin corrosion/irritation

Assessment:

Based on the available data a clinically relevant skin irritation hazard is not expected.

Product details:

Result/Effect	Species/Test system	Source
not irritating	rabbit	literature





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11.1.3 Serious eye damage / eye irritation

Assessment:

Based on the available data a clinically relevant eye irritation hazard is not expected.

Product details:

Result/Effect	Species/Test system	Source
not irritating	rabbit	literature

11.1.4 Respiratory or skin sensitization

Assessment:

During several years of handling this material, there were no indications of a skin-sensitizing potential.

11.1.5 Germ cell mutagenicity

Assessment:

According to our present state of knowledge not mutagenic.

11.1.6 Carcinogenicity

Assessment:

Animal tests have not revealed any carcinogenic effects.

11.1.7 Reproductive toxicity

Assessment:

In animal experiments there have not been any indications of reproduction toxicity.

11.1.8 Specific target organ toxicity (single exposure)

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.9 Specific target organ toxicity (repeated exposure)

Assessment:

Changes in the lungs (inflammatory processes) observed in animal experiments after chronic inhalative exposure were reversible; no indication of silicosis.

11.1.10 Aspiration hazard

Assessment:

For this endpoint no toxicological test data is available for the whole product.

11.1.11 Further toxicological information

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

SECTION 12: Ecological information

12.1 Toxicity

Assessment:

No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

Product details:

Result/Effect	Species/Test system	Source
LC ₅₀ : > 10000 mg/l	zebra fish (Danio rerio) (96 h)	literature
EC ₅₀ : > 10000 mg/l	Daphnia magna (24 h)	literature







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12.2 Persistence and degradability

Assessment:

The substance is degradable in abiotic processes.

12.3 Bioaccumulative potential

Assessment:

No adverse effects expected.

12.4 Mobility in soil

Assessment:

No adverse effects expected.

12.5 Other adverse effects

none known

12.6 Additional information

Insoluble in water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Material

Recommendation:

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

13.1.2 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. Uncleaned packaging should be treated with the same precautions as the material.

SECTION 14: Transport information

14.1 – 14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group

 Land transport ADG Code (road and rail)::

 Valuation

 Transport by sea IMDG-Code:

 Valuation

 Valuation

 Air transport ICAO-TI/IATA-DGR:

 Valuation

 Valuation

 Not regulated for transport

 14.5

 Environmental hazards

 Hazardous to the environment: no

 14.6

 Special precautions for user

 Relevant information in other sections has to be considered.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Bulk transport in tankers is not intended.





SECTION 15: Regulatory information

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Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1 National and local regulations must be observed. For information on labelling please refer to section 2 of this document. 15.1.1 Poisons Standard (Standard for the Uniform Scheduling of Medicines and Poisons; SUSMP) **Poisons Schedule number:** Not a Scheduled Poison. Label elements: 15.2 Details of international registration status Relevant information about individual substance inventories, where available, is given below. South Korea (Republic of Korea).....: ECL (Existing Chemicals List): This product is listed in, or complies with, the substance inventory. Japan...... ENCS (Handbook of Existing and New Chemical Substances): This product is listed in, or complies with, the substance inventory. Australia AICS (Australian Inventory of Chemical Substances): This product is listed in, or complies with, the substance inventory. People's Republic of China...... IECSC (Inventory of Existing Chemical Substances in China): This product is listed in, or complies with, the substance inventory. Canada.....: DSL (Domestic Substance List): This product is listed in, or complies with, the substance inventory. This product is listed in, or complies with, the substance inventory. United States of America (USA) TSCA (Toxic Substance Control Act Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. Taiwan (Republic of China): **TCSI** (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: Taiwan REACH requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger

 European Economic Area (EEA)
 ::
 REACH (Regulation (EC) No 1907/2006):

 REACH registration number: 01-2119379499-16-0001
 General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

SECTION 16: Other information

16.1 Material

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

All deliveries are subject to the WACKER SILICONES Health Care Policy, which is available at www.wacker.com.

16.2 Further information:

Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.





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16.3 Glossary of Terms:

CAS No. - Chemical Abstracts Service Registry Number

UN No. - United Nations Dangerous Goods Number

ADG Code - Australian Dangerous Goods Code for the Transport of Dangerous Goods by Road & Rail

IMDG Code - International Maritime Dangerous Goods Code

IATA Regs - International Air Transport Association (IATA) Dangerous Goods Regulations

NOHSC - Australian National Occupational Health and Safety Commission (Note: NOHSC documents are now published by Safe Work Australia)

OEL - Occupational exposure limit in Great Britain

AGW - Occupational exposure limit in Germany

ES_AU - Occupational exposure standard in Australia

- End of Safety Data Sheet -