

HUNTSMAN

MATERIAL SAFETY DATA SHEET

WACKER HDK N20

Not hazardous according to the criteria of NOHSC

COMPANY DETAILS

SUPPLIER

Company Name: Huntsman Chemical Company Australia Pty. Limited ABN 48 004 146 338
Address: Somerville Road, Brooklyn, VIC 3012
Telephone Number: (03) 9316 3333
Fax Number: (03) 9314 2170
Emergency Telephone Number: **1800 033051 (STD free - all hours)**

IMPORTER

Wacker Chemicals Australia Pty Ltd
3/11 Leicester Avenue
Glen Waverley VIC 3150
Telephone Number: +61 3 9802 6100 **Emergency Information: Reg. Affairs Mgr:** +61 3 9802 6100
Fax Number: +61 3 9802 6311 **Emergency Information: ADT Security (24 hrs):**+61 3 9808 7373

IDENTIFICATION

Supplier's Product Code:

The importer's Material Safety Data Sheet is attached:

Product Name: WACKER HDK N20 **Date of Issue:** 19 Jan 2001 **No. of Pages:** 6

Other Information:

ADG Code: Not classified as Dangerous Goods for transport or storage.
NOHSC Exposure Standard: Amorphous silica-fumed silica: 8-hour TWA: 2 mg/m³ (as respirable dust).

CONTACT INFORMATION

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NOHSC: National Occupational Health and Safety Commission

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Safety Data Sheet (91/155/EEC)

WACKER

Wacker Chemie GmbH

Material: 60004600

WACKER HDK N20

HYDROPHILIC AMORPHOUS FUMED SILICA

Version: 1.1 (GB)

Date of print: 12.06.2001

Date of last alteration: 19.01.2001

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

1 Identification of the substance/preparation and company**1.1 Identification of the substance or preparation:**

Commercial Product Name: WACKER HDK N20 HYDROPHILIC AMORPHOUS FUMED SILICA

1.2 Company/undertaking identification:

Manufacturer/distributor: Wacker-Chemie GmbH Wacker Chemicals Australia Pty Ltd

Street/POB-No.:	Hanns-Seidel-Platz 4	3/11 Leicester Avenue
State/postal code/city:	D 81737 München	Glen Waverley Vic 3150
Telephone:	+4989627901	+61 3 9802 6100
Telefax:	+498677832356	+61 3 9802 6311

Emergency Information	Regulatory Compliance	Emergency Number
	Manager	+61 3 9802 6100
Emergency Information	ADT Security -	+61 3 9808 7363
	Wacker Chemicals Spills	(24 hours)

2 Composition/information on ingredients**2.1 Chemical characterization (substance):**

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

3 Hazards identification**3.1 Critical hazards to man and environment:**

R-Phrase	Description
R:-	-

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

-

4.2 After inhalation:

Provide fresh air.

4.3 After contact with the skin:

No special measures required.

4.4 After contact with the eyes:

No special measures required.

4.5 After swallowing:

No special measures required.

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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:

-

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

-

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

-

5.4 Special protective equipment for fire fighting:

-

6 Accidental release measures

6.1 Personal precautions:

Avoid dust formation.

6.2 Environmental precautions:

No special measures required.

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 static discharges. Ensure all parts of equipment are well earthed. Use inert gas when working with combustible and explosive liquids.

7.2 Storage

Conditions for storage rooms and vessels:

-

Advice for storage of incompatible materials:

-

Further information for storage:

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8 Exposure controls and personal protection equipment

8.1 Further information for system design and engineering measures:

8.2 Associate substances with specific control parameters such as limit values

TLV values:

CAS-No.	Material	Type	mg/m ³	ppm	E/A	fibre/m ³
7631-86-9	Silica, amorphous	TLV_GB	6.0		Inhalable dust	
7631-86-9	Silica, amorphous	TLV_GB	2.4		Respirable dust	

8.3 Personal protection equipment

General protection and hygiene measures:

Do not breathe dust.

Respiratory protection:

fine dust mask without protection rating when dust formation .

Hand protection:

protective gloves recommended .

Eye protection:

protective goggles recommended .

9 Physical and chemical properties

9.1 Appearance

Form.....: solid - powder

Colour.....: white

Odour.....: odourless

9.2 Safety parameters

Melting point.....: 1700 °C

Flash point.....: not applicable

Ignition temperature.....: not applicable

Lower explosion point.....: not applicable

Upper explosion point.....: not applicable

Density.....: approx.2,2 g/cm³

Bulk density.....: 20 - 130 kg/m³

Solubility in water.....: virtually insoluble at 20 °C

pH-Value.....: 3,6 - 4,5 (40 g/l H₂O)

Method
(67/548/EEC):

(DIN 51757)

9.3 Further information

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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:

-

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:

11.1 Acute toxicity:

ID/LC50-values relevant to classification:

Exposition	Value/value range	Species	Source
oral	> 5000 mg/kg	rat (Limittest)	literature
dermal	> 5000 mg/kg	rabbit (Limittest)	literature
inhalation	> 0.139 mg/l/4h	rat (Limittest)	literature

Specific symptoms in animal test:

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

Primary irritation:

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

Further information:

According to previous experience, non-mutagenic.

11.2 Subacute to chronic toxicity:

Result:

Animal tests have not revealed any carcinogenic or genetically harmful effects. Chronic respiratory exposure: Changes in respiratory organs observed in animal experiments (inflammatory processes) were reversible; no indication of silicosis.

11.3 Experience with man:

By prolonged contact with the product no damage to health was observed.

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12 Ecological information

12.1 Information on elimination (persistence and degradability)

Biodegradation / further information:

Not applicable.

12.2 Behaviour in environmental compartments

Further information:

No harmful effects expected.

12.3 Ecotoxicological effects:

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

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

According to present experience, no adverse effects on water purification plants. Can be removed mechanically from waste water.

12.4 Further ecological information

General information:

Insoluble in water.

13 Disposal considerations

13.1 Material

Recommendation:

After solidification, material can be stored together with domestic waste. Observe local bye-laws.

13.2 Contaminated packaging

Recommendation:

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

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14 Transport information

14.1 Land Transport ADG Code:

Non Dangerous material

14.3. Transport by sea IMDG Code:

Non Dangerous material

14.4 Air Transport ICAO-TI and IATA-DGR transport by air:

Non Dangerous material

15 Regulatory information

15.1 Warning Label (EU)

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

15.2 National regulations:

SI 1999/3232:	CHIP Regulations 1999
SI 1999/437:	COSHH Regulations 1999
SI 1999/3242:	Management of Health & Safety at Work Regulations 1999
Health & Safety at Work Act 1974	
SI 1993/1643:	Environmental Protection Act 1993 & Subsidiary Regulations.
Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.	

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.

n.a. = not applicable

n.s. = not subject to