

# Safety Data Sheet (NOHSC:2011)

Material: 60081204

**HDK® V15  
HYDROPHILIC PYROGENIC SILICA**

Version: 1.5 (AU)

Date of print: 28.08.2015

Date of last alteration: 16.11.2012

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Commercial product name: HDK® V15  
HYDROPHILIC PYROGENIC SILICA**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Industrial.

Use of substance / preparation:

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

### 1.3 Details of the supplier of the safety data sheet

**Manufacturer: Wacker Chemicals (China) Co., Ltd.**  
**Street/POB-No.: Bldg. 3, 1535 Hongmei Road****Caohejing Hi-Tech Park**  
**TJ Shanghai 200233****Telephone: +86 21 6100-3400****Telefax: +86 21 6100-3500****Distributor: Wacker Chemie AG**  
**Care of Wacker Chemicals Australia Pty Ltd****Street/POB-No.: Unit 1 / 35 Dunlop Road****State/postal code/city: Mulgrave, Victoria 3170****Telephone: +61 3 9541 8900****Telefax: +61 3 9541 8989****Information about the Safety Data Sheet: Telephone +49 8677 83-4888**  
**Telefax +49 8677 886-9722**  
**eMail WLCP-MSDS@wacker.com**

### 1.4 Emergency telephone number

**Emergency information: Regulatory Compliance Manager +61 3 9541 8900**  
**Emergency response service only (24h): Orica Australia SH&E Shared Services 1800 033 111**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

NON-HAZARDOUS SUBSTANCE (according to the criteria of NOHSC). NON-DANGEROUS GOOD (according to the ADG Code).

**Classification (67/548/EEC, 1999/45/EC):**

R-Phrase	Description
R-	-

### 2.2 Label elements

**Labelling (67/548/EEC, 1999/45/EC):**

R-Phrase	Description
R-	-

S-Phrase	Description
S-	-

### 2.3 Other hazards

No data are available.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

#### 3.1.1 Chemical characterization (substance)

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

### 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 inhalation:**

Provide fresh air.

**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 contact with the eyes:**

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

**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:

No data are available.

## 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

### 5.2 Special hazards arising from the substance or mixture

not applicable

### 5.3 Advice for firefighters

**Special protective equipment for fire fighting:**

not applicable

**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

Avoid dust formation. Do not breathe dust. Wear personal protection equipment (see section 8).

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## 6.2 Environmental precautions

Cover any spilled material in accordance with regulations to prevent dispersal by wind.

## 6.3 Methods and material for containment and cleaning up

Damp down dust and fill into containers.

## 6.4 Reference to other sections

Relevant information in other sections have 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.

#### 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:

none known

#### Advice for storage of incompatible materials:

not applicable

#### Further information for storage:

Keep container dry and tightly closed.

### 7.3 Specific end use(s)

No data are available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Maximum airborne concentrations at the workplace:

CAS No.	Material	Type	mg/m <sup>3</sup>	ppm	Dust fract.	Fibre/m <sup>3</sup>
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:

Do not breathe dust. Do not eat, drink or smoke when handling. Application of skin cream recommended to ensure optimum protection of skin.

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**Personal protection equipment:****Respiratory protection**

In case of dust formation: fine dust mask without protection rating .

**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**

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 properties****General information:**Physical state / form .....: solid - powder  
Colour .....: white  
Odour .....: odourless**Important information about the protection of health, safety and the environment:**

Property:	Value:	Method:
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	
Explosion group .....		
Vapour pressure.....	not applicable	
Density .....	approx. 2.2 g/cm <sup>3</sup> at 20 °C	(DIN 51757)
Bulk density.....	20 - 130 kg/m <sup>3</sup>	
Water solubility / miscibility.....	virtually insoluble at 20 °C	
pH-Value .....	3.6 - 4.5	(DIN EN ISO 787-9)
Viscosity (dynamic) .....	not applicable	

**9.2 Other information**

No data are 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 .

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## 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 exposure	Result/Effect	Species/Test system	Source
oral	LD <sub>50</sub> : > 5000 mg/kg	rat	literature
dermal	LD <sub>50</sub> : > 5000 mg/kg	rabbit	literature
by inhalation	LC <sub>50</sub> : > 0.139 mg/l; 4 h At the technically highest possible concentration no mortality in animal test.	rat	literature

#### 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

#### 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:**

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

#### 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.

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## 11.1.9 Specific target organ toxicity (repeated exposure)

### Assessment:

Chronic inhalative exposure: Changes in respiratory organs observed in animal experiments (inflammatory processes) 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 <sub>50</sub> : > 10000 mg/l	zebra fish (Danio rerio) (96 h)	literature
EC <sub>50</sub> : > 10000 mg/l	Daphnia magna (24 h)	literature

### 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:

Can be disposed of as household waste. Local legislation must be observed.

#### 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.

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## 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 .....: Not regulated for transport

**Transport by sea IMDG-Code:**

Valuation .....: Not regulated for transport

**Air transport ICAO-TI/IATA-DGR:**

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 have to be considered.

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk transport in tankers is not intended.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

#### 15.1.1 Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) Australia:

Poisons Schedule number:

No Poisons Schedule number allocated.

### 15.2 Other international regulations

**Details of international registration status:**

Listed on or in accordance with the following inventories:

EINECS - Europe

ECL - Korea

ENCS - Japan

AICS - Australia

IECSC - China

DSL - Canada

PICCS - Philippines

TSCA - USA

## 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.

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**16.2 Further information:**

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

**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 the ASCC)

ASCC - Australian Safety & Compensation Council

OEL - Occupational exposure limit in Great Britain

AGW - Occupational exposure limit in Germany

ES\_AU - Occupational exposure limit in Australia

**- End of Safety Data Sheet -**