

TRULUX SAFETY DATA SHEET

Provides critical information about hazardous chemicals.

1.1 COMPANY IDENTIFICATION

Company's Name: Trulux Pty Ltd
Email address: info@trulux.com.au
Website: www.trulux.com.au
Contact number: +61 (02) 9975 2655
Address: C3/ 1-3 Rodborough Rd, Frenchs Forest NSW 2086 Australia

1.2 PRODUCT IDENTIFICATION

Trade name: HDK H15 Pyrogenic Silica (Silica Dimethyl Silylate)
Reference number: RMTR-0713A
Classification: Refer to clause 2

1.3 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Identified uses: Raw Material
Uses advised against: No further information available.

1.4 DETAILS OF THE SUPPLIER OF THE SUBSTANCE INFORMATION SHEET

Supplier's Company: Trulux Pty Ltd
Website: www.trulux.com.au
Address: C3/ 1-3 Rodborough Rd, Frenchs Forest NSW 2086 Australia

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1.5 EMERGENCY CONTACTS – INSTITUTIONAL CENTRES

Australia

Poisons Information Centre 13 11 26

2 HAZARD IDENTIFICATION

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.

Label elements

No labeling according to GHS required.

3 COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical characteristics

CAS No.: 68611-44-9

Hydrophobized highly dispersed silica, synthetic, x-ray amorphous silicon dioxide

Ingredients

This material does not contain any ingredients above the permitted limit(s).

Mixtures

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above $\geq 0.1\%$.

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4 FIRST AID MEASURES

General information:	In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).
Inhalation:	Provide fresh air.
Skin Contact:	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).
Eye contact:	Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.
Ingestion:	Give several small portions of water to drink. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed

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

Advice for the doctor:

Further toxicology information in section 11 must be observed.

5 FIRE FIGHTING MEASURES

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: toxic and very toxic fumes .
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Advice for firefighters

Special protective equipment for fire fighting:

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

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General information:

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

6 ACCIDENTAL RELEASE MEASURES

Personal precautions: 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.

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.

Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. Avoid dust formation.

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).

7 HANDLING AND STORAGE

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.

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Ensure all parts of equipment are well earthed. Use inert gas when working with combustible and explosive liquids. Avoid dust deposit, remove dust regularly.

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:

Keep container dry and tightly closed.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

Maximum airborne concentrations at the workplace:

CAS No.	Substance	Type	mg/m ³	Dust fract.
7631-86-9	Silica, amorphous	ES_AU	2.0	Respirable dust/mist

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

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

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TRULUX SAFETY DATA SHEET

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Respirator must be worn if exposed to dust.

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

Recommendation in case of dust formation: protective clothing.

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.

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Specific notes (Australia):

Select and use respirators in accordance with AS1715/1716.

Further information for system design and engineering measures

Observe information in section 7. Observe national regulatory requirements.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State / From:	solid
Form:	powder
Color:	white
Odour:	odourless
Melting point / melting range:	1700 °C at 1013 hPa
Relative Density:	ca. 2.2 (20 °C) (Water / 4 °C = 1,00)
Density:	ca. 2.2 g/cm ³ (20 °C)
Bulk density:	30 - 100 kg/m ³
Water solubility / miscibility	virtually insoluble at 20 °C
Dust explosion class	No danger of dust explosion according to German VDI 2263.
pH:	3.8 - 4.8

10 STABILITY AND REACTIVITY

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.

Conditions to Avoid: Moisture.

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11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Based on the available data acute toxic effects are not expected after single oral exposure.

Product details:

Route of exposure	Result / Effect	Species / Test system	Source
oral	LD50: > 5000 mg/kg	rat	literature
by inhalation (dust)	LC50: > 0.477 mg/l; 4 h At the technically highest possible concentration no mortality in animal test.	rat	literature

Skin corrosion/irritation

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

Serious eye damage / eye irritation

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

Respiratory or skin sensitization

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

Germ cell mutagenicity

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

Carcinogenicity

Animal tests have not revealed any carcinogenic effects.

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Reproductive toxicity

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

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

Further toxicological information

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

12 ECOLOGICAL INFORMATION

Toxicity

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
LC50: > 10000 mg/l	zebra fish (Danio rerio) (96 h)	literature
EC50: > 10000 mg/l	Daphnia magna (24 h)	literature

Persistence and degradability

Biologically not degradable.

Bioaccumulative potential

No adverse effects expected.

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Mobility in soil

Insoluble in water. No adverse effects expected.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

Material: 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.

Uncleaned packaging: Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or reused. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

14 TRANSPORT INFORMATION

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.

Environmental hazards

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Hazardous to the environment: no

Special precautions for user

Relevant information in other sections has to be considered.

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

Bulk transport in tankers is not intended.

15 REGULATORY AND OTHER INFORMATION

Safety, health and environmental regulations specific for the mixture or substance:

National and local regulations must be observed.

Poisons Standard (Standard for the Uniform Scheduling of Medicines and Poisons; SUSMP)

Poisons Schedule number:

Not a Scheduled Poison.

Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

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.

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.

Philippines: PICCS (Philippine Inventory of Chemicals and Chemical Substances): This product is listed in, or complies with, the substance inventory.

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United States of America (USA): TSCA (Toxic Substance Control Act Chemical Substance Inventory): All components of this product are listed as active or are in compliance with the substance inventory.

Taiwan: TCSI (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.

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

South Korea (Republic of Korea): AREC (Act on Registration and Evaluation of Chemicals; "K-REACH"): General note: in case of registration obligations for substances or polymers imported into Korea or manufactured within Korea these are fulfilled by the supplier mentioned in section 1. The registration obligations for substances or polymers imported into Korea by customers or other downstream users must be fulfilled by the latter.

16 OTHER INFORMATION

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition or other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user.

This sheet completes the technical sheets but it does not replace them. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied is made and Trulux Pty Ltd assumes no legal responsibility or liability whatsoever resulting from its use. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product.

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This listing must not be considered exhaustive. It does exonerate the user from ensuring that other legal obligations than those mentioned do not exist, relating to the use and storage of the product for which he solely is responsible.

The information and recommendations contained herein are to the best of the manufacturer's knowledge and belief accurate and reliable as of the date indicated. No representation warranty or guarantee, however, is made with regard to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use.

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