

Material Safety Data Sheet

Section 1: Identification of Product & Supplier

Product:	Deks Hardener (Used in conjunction with Deks Base)
Classification:	Hazardous according to the criteria of Worksafe Australia
Uses:	Adhesive for civil engineering use
Manufactured by:	Deks Industries Pty Ltd
ABN:	77 107 135 544
Street Address:	5/841 Mountain Highway Bayswater Vic 3153 Australia
Telephone:	+ 61 3 8727 8811
Facsimile:	+ 61 3 9720 1000
Emergency Phone	As above
Web:	www.deks.com.au

Section 2: Hazards Identification

Hazard Category:	Xi Irritant
Risk Phases:	R36/38 Irritating to skin and eyes R34 May cause sensitisation by skin contact
D.G Class:	Not classified as dangerous goods
Subsidiary Risk:	Nil
Poison Schedule:	S 5

This product is a Schedule Poison S 5 and must be stored, maintained and used in accordance with the relevant legislation

Section 3: Composition & information on ingredients

Ingredients:	Name	CAS No.	Proportion %
	Polymide Hardener	68082.29.1	40 - 50
	Triethylene Tetramine	112.24.3	4 -8
	Talc Powder	14807.96.6	10 – 16
	Kaolin Powder	1317.65.3	35 – 45

Section 4: First Aid Measures

	Poison information centres in each State capital can provide additional assistance for scheduled poisons. (Phone Australia 131126)
Eye Contact:	In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical attention.
Skin Contact:	Remove contaminated clothing and footwear. Wash skin thoroughly with water. If swelling, redness, blistering or irritation occurs seek urgent medical attention.
Inhalation:	Remove victim from exposure to fresh air. If breathing difficulty, apply artificial respiration and seek medical attention.
Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. If swallowed, drink plenty of water and seek medical treatment. Never give anything by mouth to an unconscious person.

Section 5: Fire-Fighting Measures

- Extinguishing Media:** Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).
- Specific Hazards:** The material is stable under normal conditions. On decomposition gives off carbon dioxide, carbon monoxide and other gases. In compatible with alkalis, acids and strong oxidisers.
- Fire-fighters:** Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

Section 6: Accidental Release Measures

- Small Spills:** Shut off all possible ignitions sources. Wear protective equipment to prevent skin and eye contamination. Clean with absorbent material like sand, soil, vermiculite or any other inert material. Avoid contamination of drains, sewerage and water ways. Collect and seal in properly labelled containers for disposal as per local council statutory codes.
- Large Spill:** Shut off all possible ignitions sources. Wear protective equipment to prevent skin and eye contamination. Clean with absorbent material like sand, soil, vermiculite or any other inert material. Avoid contamination of drains, sewerage and water ways. Collect and seal in properly labelled containers for disposal as per local council statutory codes. If contamination of land drains, sewerage and water ways has occurred notify Emergency Services and Environmental Protection Agency.

Section 7: Handling & Storage

- Storage:** Store in the closed, original container in a cool ventilated area. Keep containers closed when not in use. Keep away from explosives, food, oxidising agents and peroxides. This product is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant legislations.

Section 8: Exposure Controls & Personal Protection

- Exposure Limits:** No value assigned for this specific product by the National Occupation and Safety Commission (Worksafe Australia). However Supplier recommended Hygiene Standard as under:

TWA STEL Carcinogen Notices

Material	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Polymide Hardener	N/E	N/E	N/E	N/E
Triethylene Tetramine	N/E	N/E	N/E	N/E
Talc Powder	N/E	N/E	N/E	N/E
Kaolin Powder	N/E	N/E	N/E	N/E

Engineering Controls: N/E No exposure standard has been established for this product

Special ventilation is not normally required due to the low volatility of the product at normal temperature. However, in the operation of certain equipment or at elevated temperatures, mists or vapours may be generated and exhaust ventilation should be provided to maintain airborne concentration levels below the exposure standards or where no exposure standard is allocated, as low as possible.

Personal Protection: Use overalls, safety shoes, safety goggles, rubber or chemical resistant gloves and respirator if required. (Available information suggests that gloves manufactured from PVC should be suitable for intermittent contact).
If inhalation risk exists, wear an organic vapour respirator meeting the requirements of AS/NZS 1715 and 1716.
Always wash hands with soap and water before smoking, eating, drinking or using toilet facilities.

Preparations & use of product: Repeated exposure may cause allergic disorders. Sensitive workers should use protective equipment. Avoid contact with eyes and skin. Do not inhale mist or vapours. After each day's use, wash gloves, safety goggles and all contaminated clothing.

Section 9:	Physical & Chemical Properties
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Appearance:	Dark Grey Paste
Solubility:	Insoluble in water
Specific Gravity:	1.9
Boiling Point:	Not established
Rel. Vapour Density:	Not defined
Melting Range:	Not established
Vapour Pressure:	Nil
Decomposition Temperature °C:	More than 200
Flash Point °C:	>200
Flammability Limits (%):	Above flammable limits in air
pH:	7 (5% wt. in water)
Boiling point/range:	Not available
Auto ignition temperature °C:	Not established
% Volatile Organic Content:	Nil

Section 10:	Stability & Reactivity
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Stability:	<ol style="list-style-type: none"> 1. The product is stable under normal conditions and use. 2. Hazardous polymerisation will not occur. 3. Due to exothermic reaction heat is generated, when mixed. Adequate care should be taken when mixing in large quantities. 4. Condition to avoid – Avoid direct exposure to flame. 5. Material to avoid – Non under specific use.
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Section 11:	Toxicology Information
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No adverse health effects are expected if the product is handled in accordance with the Material Safety Data Sheet. Symptoms that may arise if the product is miss handled are:

Acute Effects: Ingestion: Harmful if swallowed. May cause gastrointestinal discomfort and irritation.
 Eye: Brief contact may cause mild irritation to eyes.
 Skin: Mild irritant and poorly absorbed through the skin. Prolonged and repeated contact may cause severe irritation and/or dermatitis
 Inhaled: Not hazardous at ambient temperatures. Vapours generated at elevated temperatures or when inhaled repeatedly may cause irritation to nose, throat and respiratory tract.

Long Term Effects: Repeated skin contact and inhalation may result in sensitisation in some individuals. May cause allergic reaction, dermatitis or asthma like symptoms. Follow good working practice. Avoid ingestion, inhalation, eye and skin contact. Wash hands with soap and water before eating, drinking, smoking or using toilet facilities.

Acute &Chronic Toxicity: Negative in a battery of mutagenicity assays.
 No evidence of carcinogenicity was observed in long term studies of rats. No development or reproductive effects in rat and rabbit.
 Acceptable Daily Intake (ADI) for humans is 0.01 mg/kg/day

Section 12:	Ecological Information
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Avoid contamination of drains, sewerage, creeks and waterways.
 Not toxic to aquatic organisms.

Section 13.	Disposal Consideration
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Dispose all empty containers as per State & Council Regulations. Do not dispose near waterways, vegetation and tree roost. Empty containers and product should not be burned.

Section 14:	Transport Information
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For road, marine and air transport this product is not classified as dangerous goods within the context of National Transport Regulations.

UN. No.: Not Allocated
Shipping Name: Not Applicable
Class: Not classified as dangerous goods.
Subsidiary Risk: Nil
Packaging Group: Not Applicable
Hazchem Code: Not Applicable
EPG: Not Applicable
Segregation: Not Applicable

Section 15:	Regulatory Information
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The National Model Regulations for the control of Workplace Hazardous substances [NOHSC: 10005 (1995)].
 The National Standard for the Storage and Handling of Workplace Dangerous Goods [NOHSC: 1015 (2001)]

Section 16:	Other Information
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Date of Preparation: 10.10.13
Date or Revision: 10.10.18

Reasons for Issue New Information

MSDS's are updated frequently. Please ensure you have the current copy. This MSDS summarises at the date of issue our best knowledge of health and safety hazard information of the product, and in particular how to handle and use the product in the workplace. Since Deks Industries Pty Ltd cannot anticipate or control the conditions under which the product may be used each user must, prior to usage, review this MSDS in the context to use and handling of the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact Deks Industries Pty Ltd. Our responsibility for the product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.