

SAFETY DATA SHEET
According to Safe Work Australia

Printing date 08.12.2016

Revision: 08.12.2016

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: DEKS HARDENER

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use:

Adhesive for civil engineering use (used in conjunction with Deks Base).

Details of Manufacturer or Importer:

Deks Industries Pty Ltd
5/841 Mountain Hwy
Baywater Vic 3153

Phone Number: 3 8727 8800

Emergency telephone number: National Poison Information Centre: 13 11 26

2 . HAZARDS IDENTIFICATION

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



Acute Toxicity (Oral) 4	H302 Harmful if swallowed.
Acute Toxicity (Dermal) 4	H312 Harmful in contact with skin.
Skin Corrosion/Irritation 2	H315 Causes skin irritation.
Serious Eye Damage/Irritation 2A	H319 Causes serious eye irritation.
Skin Sensitisation 1	H317 May cause an allergic skin reaction.

Signal Word Warning

Hazard Statements

H302+H312 Harmful if swallowed or in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see on this label).
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P330 Rinse mouth.
P302+P352 IF ON SKIN: Wash with plenty of water.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local/regional/national regulations.

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3 . COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

68082-29-1	Fatty acids, C18-unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine ⚠ Acute Toxicity (Oral) 4, H302; Acute Toxicity (Dermal) 4, H312; Skin Sensitisation 1, H317	40 - 50%
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	10 - 16%
112-24-3	1,2-Ethanediamine, N,N'-bis(2-aminoethyl)- ⚠ Skin Corrosion/Irritation 1A, H314; ⚠ Acute Toxicity (Dermal) 4, H312; Skin Sensitisation 1, H317; Aquatic Chronic 3, H412	4 - 8%

4 . FIRST AID MEASURES

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: Vapours generated at elevated temperatures may cause respiratory irritation.

Skin Contact: Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.

Eye Contact: Causes serious eye irritation.

Ingestion: Harmful if swallowed. May cause gastrointestinal discomfort and irritation.

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog or fine spray, normal foam, dry chemical powder or carbon dioxide.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and other gases.

Incompatible with strong oxidising agents, peroxides, acids and bases.

Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 . ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

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Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

7 . HANDLING AND STORAGE

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Contaminated work clothing must not be allowed out of the workplace. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents, peroxides, acids and bases.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

14807-96-6 Talc ($Mg_3H_2(SiO_3)_4$)

WES | TWA: 2.5 mg/m³

Engineering Controls:

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

Respiratory Protection:

Use an approved organic vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Chemical resistant PVC or rubber gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:**Form:**

Paste

Colour:

Dark grey

Odour:

No information available

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Odour Threshold:	No information available
pH-Value:	7 (5% in water)
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	>200 °C
Flammability:	No information available
Auto-ignition Temperature:	No information available
Decomposition Temperature:	>200 °C
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Relative Density:	1.9
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Insoluble
Partition Coefficient (n-octanol/water):	No information available
VOC:	0 %

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur.

This product undergoes an exothermic reaction, generating heat when mixed with Deks Base.

Take care when mixing large quantities.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.**Conditions to Avoid:** Heat, sparks, open flames and other sources of ignition.**Incompatible Materials:** Strong oxidising agents, peroxides, acids and bases.**Hazardous Decomposition Products:** Oxides of carbon and other gases.

11 . TOXICOLOGICAL INFORMATION

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****112-24-3 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-**

Oral	LD ₅₀	1600 mg/kg (mouse)
		2500 mg/kg (rat)
		5500 mg/kg (rabbit)

Dermal	LD ₅₀	805 mg/kg (rabbit)
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1317-65-3 Limestone

Oral	LD ₅₀	6450 mg/kg (rat)
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Acute Health Effects**Inhalation:** Vapours generated at elevated temperatures may cause respiratory irritation.**Skin:** Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.**Eye:** Causes serious eye irritation.**Ingestion:** Harmful if swallowed. May cause gastrointestinal discomfort and irritation.**Skin Corrosion / Irritation:** Causes skin irritation.**Serious Eye Damage / Irritation:** Causes serious eye irritation.

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Respiratory or Skin Sensitisation: May cause an allergic skin reaction.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:**

Talc not containing asbestos or asbestiform fibres is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:**Repeated or prolonged skin exposure may irritation, dermatitis and possible sensitisation.
Repeated or prolonged inhalation may cause asthma-like symptoms.**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:** No information available

12 . ECOLOGICAL INFORMATION

Ecotoxicity: No adverse ecological effects are expected.**Aquatic toxicity:** No further relevant information available.**Persistence and Degradability:** No further relevant information available.**Bioaccumulative Potential:** No further relevant information available.**Mobility in Soil:** No further relevant information available.**Other adverse effects:** No further relevant information available.

13 . DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

14 . TRANSPORT INFORMATION

UN Number Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated

15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances:

68082-29-1	Fatty acids, C18-unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine
1317-65-3	Limestone
14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)

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112-24-3	1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-
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Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
Poisons Schedule: 5

16 . OTHER INFORMATION

Date of Preparation or Last Revision: 08.12.2016**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds

LC₅₀: Lethal concentration, 50 percentLD₅₀: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Acute Toxicity (Oral) 4: Acute toxicity – Category 4

Skin Corrosion/Irritation 1A: Skin corrosion/irritation – Category 1A

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A

Skin Sensitisation 1: Skin sensitisation, Hazard Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term (Chronic). Category 3

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011”

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