



# Safety Data Sheet

Date	Jul 15
Issue	004

SDS 12

## Hazardous Substance, NON-Dangerous Goods.

### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

**Product name:** Grey Deck Cleaner

**Other Names:** Oxalic Acid, Ethanedoic acid, Ethanedionic acid, Dicarboxylic acid

**Recommended use:** Exterior Timber Cleaner, Rust Removal

**Supplier:** Preschem Pty Ltd  
**ABN:** 41 314 509 336  
**Street Address:** 147-149 Herald Street  
Cheltenham 3192  
Australia

**Telephone:** 03 9532 0679  
**Facsimile:** 03 9532 1041

**Telephone (International):** +613 9532 0679  
**Fax (International):** +613 9532 1041

**Emergency telephone number:** 03 5974 2792 OR 0419 900 452  
**International emergency number:** +613 5974 2792 OR +613 419 900 452

### 2. HAZARDS IDENTIFICATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code for transport by Road and Rail.

This material is classified as hazardous according to health criteria of NOHSC Australia.

#### Hazard Pictograms



**SIGNALWORD:** DANGER

#### Hazard Statement(s):

H302+H312 Harmful if swallowed or in contact with skin.  
H318 Causes serious eye damage.

#### Risk Phrase(s):

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P330 Rinse mouth.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P363 Wash contaminated clothing before re-use.  
P322 Specific measures (see First Aid Measures on SafetyData Sheet).  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER or doctor/physician.

#### Precautionary Statement(s):

P264 Wash hands thoroughly after handling.



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P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

**Poisons Schedule (Aust):** S6 Poison

## 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION
Oxalic Acid	144-62-7	100%
Total		100%

## 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Skin contact:** If skin or hair contact occurs, remove contaminated clothing and flush skin or hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

**Eye contact:** Immediately wash in and around the eye area with large amounts of water for at least 15 minutes. Eyelids to be held apart. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport to hospital or medical centre.

**Ingestion:** Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek immediate medical assistance.

**Notes to physician:** Treat symptomatically. Can cause corneal burns.

## 5. FIRE-FIGHTING MEASURES

**Specific hazards:** Non-Combustible material.

**Fire fighting further advice:** Decomposes on heating emitting toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

**Hazchem Code:** Not applicable.

**Suitable extinguishing media:** Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency procedures/Environmental precautions:**



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Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services.

## Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:

Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in dust. Sweep up, but avoid generating dust. Collect and seal in properly labelled containers or drums for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling:

Avoid skin and eye contact and breathing in dust. Avoid handling which leads to dust formation.

### Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for spills.

This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### National occupational exposure limits:

	TWA		STEL		CARCINOGEN CATEGORY	NOTICES
	ppm	mg/m3	ppm	mg/m3		
Oxalic Acid:	-	1	-	2	-	-

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept too as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

**Engineering measures:** Use with local exhaust ventilation or while wearing dust mask. Keep containers closed when not in use. Ensure ventilation is adequate and that air concentrations of components are controlled bellow quoted Exposure Standards.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, GLOVES, CHEMICAL GOGGLES.

Wear overalls, safety glasses and impervious gloves. If risk of inhalation, wear dust mask/respirator meeting the requirements of AS/NZS 1715 and AN/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES



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<b>Form / Colour / Odour:</b>	White translucent crystal, no odour.
<b>Molecular Formula:</b>	HO <sub>2</sub> CCO <sub>2</sub> H
<b>Solubility:</b>	Soluble in water, glycerol and alcohol. Partially soluble in ether.
<b>Specific Gravity (20 °C):</b>	1.65 @20°C (dihydrate)
<b>Relative Vapour Density (air=1):</b>	Not applicable
<b>Flash Point (°C):</b>	Not applicable
<b>Evaporation Rate:</b>	Not Available
<b>Flammability Limits (%):</b>	
LEL (%):	Not applicable
UEL (%):	Not applicable
<b>Auto ignition Temperature (°C):</b>	Not applicable
<b>Melting Point/Range (°C):</b>	101.5 (dihydrate)
<b>Boiling Point/Range (°C):</b>	149 – 160 (dihydrate)
<b>Vapour Pressure (20 °C):</b>	<0.14 Pa
<b>pH (0.1mole solution):</b>	1.3
<b>Partial coefficient: n-octanol/water:</b>	Not Available
<b>Viscosity:</b>	Not applicable

## 10. STABILITY AND REACTIVITY

### Reactivity:

Reacts exothermically with alkalis. Reacts with strong oxidising agents. Hygroscopic: absorbs moisture or water from surrounding air.

### Chemical stability:

Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### Possibility of hazardous reactions:

Accelerated decomposition occurs when mixed with strong oxidising agents. Vigorous reaction may occur with alkalis yielding heat and pressure, and with acid chlorides producing toxic fumes. May react violently with alkali metals producing flammable hydrogen gas. Reacts strongly with oxidising agents, especially sodium chlorite and sodium hypochlorite. Can react with some silver compounds to form explosive silver oxalates. Dry oxalic acid is not corrosive to metals. Corrosive to metals in the presence of moisture.

### Conditions to avoid:

Avoid alkali material in storage and in use. Avoid exposure to moisture.

### Incompatible materials:

Incompatible with alkalis. Incompatible with strong oxidising agents. Incompatible with most metals in the presence of moisture.

### Hazardous decomposition products:

Hydrogen. Carbon monoxide. Oxygen, which will support combustion.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:



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## Acute Effects

**Inhalation:** Breathing in dust may result in respiratory irritation. Inhaled oxalic acid is readily absorbed into the body and may cause headaches and nausea.

**Skin contact:** Contact with skin may result in irritation. Solutions of 5% to 10% oxalic acid are irritating to the skin after prolonged exposure and can cause corrosive injury.

**Eye contact:** Severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.

**Ingestion:** Swallowing can result in a severe burning pain of the mouth, throat and stomach followed by profuse vomiting (sometimes bloody). Small doses of oxalate in the body can cause headache, pain and twitching in muscles and cramps. Larger doses can cause weak and irregular heartbeat, drop in blood pressure and signs of heart failure. Large doses rapidly cause a shock-like state, convulsions, coma and possibly death.

**Long Term Effects:** Long term exposure can result in kidney stones and stone formation in the urinary tract.

## Acute toxicity / Chronic toxicity

Oral LD50 (rat): 475 mg/kg

Dermal LD50 (rabbit): 2000mg/kg

Exposure to oxalic acid can result in systemic effects including kidney damage, muscle twitching, cramps and nervous system complaints.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Ecotoxicity:** No information available.

**Persistence and degradability:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

Refer to State/Territory Land Waste Management Authority.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

### MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA)



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Dangerous Goods Regulations for transport by air.

## 15. REGULATORY INFORMATION

**Classification:** This material is hazardous according to criteria of NOHSC Australia

**Poisons Schedule (Aust):** S6

This material is listed on the Australian Inventory of Chemical Substances (AICS).

## 16. OTHER INFORMATION

### Literary reference

This Material Safety Data Sheet has been prepared by Preschem Pty Ltd.

Reason(s) For Issue: Revision

This Material Safety Data sheet is valid for 5 years from the date of issue and may be withdrawn and revised any time prior to that date. Please ensure that you are using the latest issue.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Preschem 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 of how the user intends to handle and use 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 this company.

Our responsibility for 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.