

# SAFETY DATA SHEET

## Fresh Investments Pty Ltd T/As Mountain Cleaning Products

7/7 Snow St., SOUTH LISMORE, NSW 2480

Phone: (02) 6622 8733

Fax: (02) 6622 8744

Emergency: 0404 226509

Product: **OXALIC ACID**

Date of Issue: MAY 2014

Page: 1 of 6

Email: support@mountaincleaning.com.au

SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION			
<b>SUPPLIER:</b>	<b>MOUNTAIN CLEANING PRODUCTS</b>		
<b>ADDRESS:</b>	7/7 Snow Street, South Lismore, NSW 2480		
<b>Trade Name:</b>	<b>OXALIC ACID</b>		
<b>TELEPHONE:</b>	(02) 6622 8733	<b>FAX:</b>	(02) 6622 8744
<b>AH EMERGENCY TELEPHONE:</b>	13 11 26 in Australia	<b>ABN:</b>	51 147 855 418
<b>Substance:</b>	Acid	<b>Product Use:</b>	Acid based cleaning
<b>Creation Date:</b>	MAY 2014	<b>Next Revision Date:</b>	MAY 2019

SECTION 2 – HAZARDS IDENTIFICATION			
This product is classified as <b>HAZARDOUS</b> according to criteria of Safe Work Australia. This product is <b>NOT classified as Dangerous Goods</b> according to the Australian Dangerous Goods (ADG) Code. This product is classified as a <b>Schedule 6 Poison</b> according to the SUSMP.			
<b>Safe Work Australia Classification</b>	Xn – Harmful		
<b>Risk Phrases</b>	R21/22 – Harmful in contact with skin and if swallowed R41 – Risk of serious eye damage		
<b>Safety Phrases</b>	S24/25 – Avoid contact with skin and eyes		
<b>UN Number</b>	none allocated	<b>ADG Classification</b>	none allocated
<b>Shipping Name</b>	none allocated	<b>ADG Subsidiary Risk</b>	none allocated
<b>Hazchem Code</b>	none allocated	<b>Packing Group</b>	none allocated
<b>SUSMP Classification</b>	S6 POISON		
EMERGENCY OVERVIEW			
<b>Colour</b>	Colourless	<b>Odour</b>	Odourless
<b>Physical Description</b>	Solid	<b>Viscosity</b>	Not applicable

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS				
Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication "List of Designated Hazardous Substances" or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication "Approved Criteria for Classifying Hazardous Substances".				
<b>Ingredients:</b>	<b>CAS Number:</b>	<b>Proportion:</b>	<b>Exposure Standards TWA</b>	<b>Exposure Standards STEL</b>
Oxalic Acid, Dihydrate	6153-56-6	100 % w/w	1mg/m <sup>3</sup>	2mg/m <sup>3</sup>
The TWA exposure value is the Time Weighted Average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.				

SECTION 4 – FIRST AID MEASURES	
<b>Scheduled Poisons</b>	Poisons Information Centre in each Australian State capital city can provide additional assistance for scheduled poisons. Phone Australia 13 11 26.
<b>First Aid Facilities</b>	Normal washroom facilities. Safety shower and emergency eye wash.
<b>Inhalation</b>	Remove victim to fresh air away from exposure - avoid becoming a casualty. If not breathing, apply artificial respiration. If breathing is difficult give oxygen. Seek immediate medical advice (e.g. doctor).
<b>Skin contact</b>	If skin or hair contact occurs, remove contaminated clothing and gently brush the contaminated body surfaces in order to remove all traces of product. Wash affected area immediately with plenty of water for at least 15 minutes. If necessary, seek medical advice.

# SAFETY DATA SHEET

## Fresh Investments Pty Ltd T/As Mountain Cleaning Products

7/7 Snow St., SOUTH LISMORE, NSW 2480

Phone: (02) 6622 8733

Fax: (02) 6622 8744

Emergency: 0404 226509

Product: **OXALIC ACID**

Date of Issue: MAY 2014

Page: 2 of 6

Email: [support@mountaincleaning.com.au](mailto:support@mountaincleaning.com.au)

<b>Eye contact</b>	If in eyes hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor, or for at least 15 minutes.
<b>Ingestion</b>	If swallowed do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious person. Rinse mouth thoroughly with water immediately. Give water to drink. If vomiting occurs, give further water to achieve effective dilution. Seek medical advice (e.g. doctor).
<b>Advice to Doctor</b>	Treat symptomatically. All treatments should be based on observed signs and symptoms of distress of the patient. Poisons Information Centre in each Australian State capital city can provide additional assistance for scheduled poisons.
<b>Aggravated Medical Conditions</b>	None known. Prolonged and repeated contact may cause dermatitis. If inhaled can cause a burning sensation of the nose and throat, coughing, shortness of breath, sore throat, symptoms of immediate effects.

SECTION 5 – FIRE FIGHTING MEASURES	
<b>General Measures</b>	Avoid open flame. Avoid contact with oxidizing materials. Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.
<b>Fire and Explosion Hazards</b>	Non flammable
<b>Extinguishing Media</b>	Use an extinguishing media suitable for surrounding fires.
<b>Hazardous Products of Combustion</b>	In case of fire, toxic fumes of carbon monoxide and carbon dioxide may be formed.
<b>Personal Protective Equipment</b>	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).
<b>Special Fire Fighting Instructions</b>	Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.
<b>Flash Point</b>	No data available.

SECTION 6 – ACCIDENTAL RELEASE MEASURES	
<b>Emergency Procedures</b>	No HAZCHEM CODE
<b>Occupational Release</b>	Minor spills do not normally need any special clean-up measures. In the event of a major spill, prevent spillage from entering drains or watercourses. Wear appropriate protective equipment as in section 8 below to prevent skin and eye contamination. Contain and neutralise with SODA ASH. Spilt material may result in a slip hazard and should be absorbed into dry, inert material (e.g. sand, earth or vermiculite), which then can be swept/shovelled into appropriately labelled drums for disposal by an approved agent according to local conditions. Wash area down with excess water. Residual deposits will remain slippery. If contamination of sewers or waterways has occurred advise the local emergency services. In the event of a large spillage notify the local environment protection authority or emergency services.

SECTION 7 – HANDLING AND STORAGE	
<b>Handling</b>	Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes. Wear protective equipment (refer to section 8). Do NOT wear contact lenses when handling this product. Keep dust levels to a minimum. Enclose dust sources, use exhaust ventilation.
<b>Storage</b>	Store in a cool, dry, place with good ventilation. Avoid storing in aluminium and light alloy containers. Store away from incompatible materials (see Section 10). Keep containers closed at all times – check regularly for leaks.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION
---

# SAFETY DATA SHEET

## Fresh Investments Pty Ltd T/As Mountain Cleaning Products

7/7 Snow St., SOUTH LISMORE, NSW 2480

Phone: (02) 6622 8733

Fax: (02) 6622 8744




Emergency: 0404 226509

Product: **OXALIC ACID**

Date of Issue: MAY 2014

Page: 3 of 6

Email: support@mountaincleaning.com.au

<b>General</b>	No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m <sup>3</sup> (for inspirable dust) and 3mg/m <sup>3</sup> (for respirable dust). Please also note the following: OEL (TWA): 1 mg/m <sup>3</sup> (ACGIH 1990-1991) OEL (como STEL): 2 mg/m <sup>3</sup> (ACGIH 1990-1991) DNEL for Workers: Local effects - acute: DNEL (derived not effect level) dermal: 0.69 mg/cm <sup>2</sup> Systemic effects - long term: DNEL (derived not effect level) dermal: 2.29 mg/Kg bw/day Systemic effects - long term: DNEL (derived not effect level) inhalation: 4.03 mg/m <sup>3</sup> DNEL for General Population: Local effects - acute: DNEL (derived not effect level) dermal: 0.35 mg/cm <sup>2</sup> Systemic effects - long term: DNEL (derived not effect level) dermal: 1.14 mg/Kg bw/day Systemic effects - long term: DNEL (derived not effect level) oral: 1.14 mg/m <sup>3</sup> PNEC water (freshwater): 0.1622 mg/L PNEC water (sea water): 0.01622 PNEC water (intermittent spills): 1622 mg/L
<b>Exposure Limits</b>	No data available
<b>Biological Limit Value</b>	None established for product.
<b>Engineering Controls</b>	Ensure ventilation is adequate to maintain air concentrations below exposure standards. Avoid generating dusts of the product. Use only in a well-ventilated area. Ensure airflow, where this product is used, is directed away from the operators.
<b>Personal Protective Equipment</b>	
<b>Eye Protection</b> 	<b>EYES:</b> Do NOT wear contact lenses. Soft lenses absorb irritants and all lenses concentrate them. Use tightly fitting goggles with side shields, or wide vision full goggles (AS1336/1337).
<b>Skin Protection</b> 	<b>HANDS:</b> Wear suitable gloves (nitrile, neoprene, natural rubber, polyvinyl) (AS2161). <b>CLOTHING:</b> Long-sleeved standard work clothing, long pants, and safety footwear (resistant to corrosive chemicals and which prevent penetration of dust) (AS3765/2210).
<b>Respirator</b> 	<b>RESPIRATOR:</b> Wear a suitable particle filter mask (P2 filter respirator for harmful particles) (AS1715/1716).

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES			
<b>Physical State</b>	Solid	<b>Colour</b>	Colourless
<b>Odour</b>	Odourless	<b>Density</b>	0.813 Relative
<b>Boiling Point</b>	NA - Sublimes at >160°C	<b>Freezing Point</b>	No data available
<b>Vapour Pressure</b>	Not available	<b>Relative Vapour Density</b>	Not available
<b>Flash Point</b>	Not available	<b>Flammable Limits</b>	Not available
<b>Water Solubility</b>	complete	<b>pH</b>	<1 @ 50g/litre
<b>Volatile Organic Compounds (VOC)</b>	Not available	<b>Coefficient of Water/Oil Distribution</b>	Not available
<b>Viscosity</b>	Not available	<b>Odour Threshold</b>	Not available
<b>Evaporation Rate</b>	Not available	<b>Per Cent Volatile</b>	Not available

SECTION 10 – STABILITY AND REACTIVITY	
<b>Chemical Stability</b>	Stable under normal conditions of use, storage and temperature.

# SAFETY DATA SHEET

## Fresh Investments Pty Ltd T/As Mountain Cleaning Products

7/7 Snow St., SOUTH LISMORE, NSW 2480

Phone: (02) 6622 8733

Fax: (02) 6622 8744

Emergency: 0404 226509

Product: **OXALIC ACID**

Date of Issue: MAY 2014

Page: 4 of 6

Email: support@mountaincleaning.com.au

<b>Conditions to Avoid</b>	Minimise exposure to air and moisture to avoid degradation.
<b>Incompatible Materials</b>	Alkaline solutions, ammonia, halogenates, oxidizing agents, metals, water, strong heat.
<b>Hazardous Decomposition Products</b>	Product can decompose on combustion to form carbon monoxide, carbon dioxide and formic acid.
<b>Hazardous Polymerisation</b>	On contact with hot surfaces or flames, this substance decomposes forming formic acid and carbon monoxide. The solution in water is a medium to strong acid. Reacts violently with strong oxidants, causing fire and explosion hazard. Reacts with some silver compounds to form explosive silver oxalate. Attacks some forms of plastic.

### SECTION 11 – TOXICOLOGICAL INFORMATION

#### POTENTIAL HEALTH EFFECTS

<b>General Information</b>	<p>Oxalic acid is classified as harmful by oral and dermal route and it entails a risk of serious damage to the eye. Toxicity endpoints and outcome of the effects assessment: Absorption: The primary health effect of oxalic acid is local irritation due to a pH shift. Therefore, absorption is not a relevant parameter for the effects assessment. Acute Toxicity: Oxalic acid Oral and Dermal Acutely toxic cat. 4 Oral LD50 Rat: &gt;375 mg/Kg bw (according to the method of Smyth) Dermal LD50 Rabbit: &gt;20000 mg/Kg bw (Pesticide Action Network, North America) Repeated Dose Toxicity: Toxicity of Oxalic acid via the oral route is addressed by LOAEL of 150 mg/Kg bw/day. Toxicity of Oxalic acid via the dermal route is not considered as relevant in the view of the anticipated insignificant absorption through the skin. Toxicity of Oxalic acid via inhalation is not considered as relevant. Therefore, classification of Oxalic acid for toxicity upon prolonged exposure is not required. Mutagenicity: Bacterial reverse mutation assay (Ames test, OECD 471): Negative. Mammalian chromosome aberration test: Negative. Oxalic acid is void of any genotoxic potential. Classification for genotoxicity is not warranted. Carcinogenicity: Oxalic acid is not considered as carcinogenic. Human epidemiological data support lack of any carcinogenic potential of oxalic acid Classification for carcinogenicity is not warranted. Toxicity for Reproduction: Oxalic acid is not toxic to reproduction (experimental result, mouse) Human epidemiological data support lack of an potential for reproductive toxicity of oxalic acid. Classification for reproductive toxicity according to regulation (EC) 1272/2008 is not required.</p>
<b>Skin contact</b>	Harmful in contact with skin. Oxalic acid is not irritating to skin (OECD 404, Rabbit)
<b>Ingestion</b>	Harmful if swallowed.
<b>Eye contact</b>	Oxalic acid entails a risk of serious damage to the eye (OECD 405, Rabbit). Based on experimental results, oxalic acid requires classification as severely irritating to the eye [R41, Risk of serious damage to eye; Eye Damage 1 (H318 - Causes serious eye damage)]
<b>Inhalation</b>	Not relevant
<b>NOHSC</b>	No significant ingredient is classified as carcinogenic by NOHSC.
<b>NTP</b>	No significant ingredient is classified as carcinogenic by NTP.
<b>IARC</b>	No significant ingredient is classified as carcinogenic by IARC.

### SECTION 12 – ECOLOGICAL INFORMATION

<b>Fish toxicity</b>	Acute/Prolonged toxicity to fish: LC50 (96hr) for freshwater fish: 160 mg/L
<b>Algae toxicity</b>	Acute/Prolonged toxicity to aquatic plants: Toxicity threshold (8 days) for freshwater algae: 80.0 mg/L

# SAFETY DATA SHEET

## Fresh Investments Pty Ltd T/As Mountain Cleaning Products

7/7 Snow St., SOUTH LISMORE, NSW 2480

Phone: (02) 6622 8733

Fax: (02) 6622 8744

Emergency: 0404 226509

Product: **OXALIC ACID**

Date of Issue: MAY 2014

Page: 5 of 6

Email: support@mountaincleaning.com.au

<b>Invertebrates toxicity</b>	Acute/Prolonged toxicity to aquatic invertebrates: EC50 (48hr) for freshwater invertebrates: 162.2 mg/L (OECD 202, Daphnia). Chronic Toxicity to aquatic organisms: The long term aquatic toxicity study on aquatic invertebrates shall be considered if the substance is poorly water soluble and oxalic acid is soluble in water. Also oxalic acid presents a low toxicity for the short term test.
<b>Soil</b>	Toxicity to soil dwelling organisms: Oxalic acid is not supposed to be directly applied to the soil and an indirect exposure to soil via sewage sludge transfer is unlikely since the substance is readily biodegradable. As oxalic acid is considered as "readily biodegradable", it can be assumed that it will be biodegraded within the STP process and as a consequence a transfer to the soil compartment is not expected. Therefore, no tests on terrestrial organisms are provided. Toxicity to terrestrial plants: EC50 (72hr for terrestrial plants: 8 mM)
<b>Biological degradation</b>	Readily biodegradable, meeting the 10 day window. The biodegradation in seawater occurs at the same rate. Also the anaerobic biodegradation occurs rapidly.
<b>General</b>	Oxalic acid has a low logKow and is readily biodegradable. The substance cannot be classified as hazardous for the environment. DO NOT DISCHARGE BULK QUANTITIES INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT. Inform local authorities if this occurs. The pH drop is responsible for the environmental effect on the aquatic life. If not neutralized, this product can be toxic for aquatic organism because of its acidity.

### SECTION 13 – DISPOSAL CONSIDERATIONS

	Refer to State Land Waste Management Authority. Transfer product residues to a labelled, sealed container for disposal or recovery. Waste disposal must be by an accredited contractor. Do not put down the drain.
--	--

### SECTION 14 – TRANSPORT INFORMATION

<b>UN Number</b>	none allocated	<b>ADG Classification</b>	none allocated
<b>Shipping Name</b>	none allocated	<b>ADG Subsidiary Risk</b>	none allocated
<b>Hazchem Code</b>	none allocated	<b>Packing Group</b>	none allocated
<b>Packaging Method</b>	none allocated	<b>Special Provisions</b>	none allocated
<b>Segregation</b>	none allocated		

### SECTION 15 – REGULATORY INFORMATION

<b>AICS</b>	All ingredients present on AICS.		
<b>Labeling Details</b>	<b>HAZARD</b>	Xn - Harmful	
	<b>RISK PHRASES</b>	R21/22 – Harmful in contact with skin and if swallowed R41 – Risk of serious eye damage	
	<b>SAFETY PHRASES</b>	S24/25 – Avoid contact with skin and eyes	
	<b>SUSMP</b>	S6 POISON	
	<b>ADG Code</b>	None allocated	

### SECTION 16 – OTHER INFORMATION

<b>Acronyms</b>	<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines and Poisons.
	<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road and Rail.
	<b>CAS Number</b>	Chemical Abstracts Service Registry Number.
	<b>UN Number</b>	United Nations Number.
	<b>R-Phrases</b>	Risk Phrases.
	<b>HAZCHEM</b>	An emergency action code of numbers and letters, which gives information to emergency services.
	<b>NOHSC</b>	National Occupational Health and Safety Commission.
	<b>NTP</b>	National Toxicology Program (USA).
	<b>IARC</b>	International Agency for Research on Cancer.
	<b>AICS</b>	Australian Inventory of Chemical Substances.

# SAFETY DATA SHEET

## Fresh Investments Pty Ltd T/As Mountain Cleaning Products

7/7 Snow St., SOUTH LISMORE, NSW 2480

Phone: (02) 6622 8733

Fax: (02) 6622 8744

Emergency: 0404 226509

Product: **OXALIC ACID**

Date of Issue: MAY 2014

Page: 6 of 6

Email: support@mountaincleaning.com.au

	<b>TWA</b>	Time Weighted Average
	<b>STEL</b>	Short Term Exposure Limit
<b>Literature References</b>	List of Designated Hazardous Substances [NOHSC:10005(1999)]	
	Australian Code For The Transport Of Dangerous Goods By Road And Rail – Seventh Edition.	
	Standard for the Uniform Scheduling of Medicines and Poisons, 2013.	
	National Code of Practice for the Preparation of Material Safety Data Sheets 3rd Edition [NOHSC:1008(2004)]	
	Material Safety Data Sheets – individual raw materials – Suppliers.	
	HSIS – Hazardous Substance Information System – National Safe Work Data Base.	
<b>Note</b>	Safety Data Sheets are updated frequently. Please ensure that you have a current copy.	
<b>Contact Point</b>	Regulatory Affairs Manager.	<b>Telephone</b> (02) 6622 8733
<b>Issue Date</b>	MAY 2014	<b>Supersedes Issue Date</b> This is 1 <sup>st</sup> issue
This MSDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since the supplier 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 supplier.		