

Mountain Cleaning Products

777 Snow St., SOUTH LISMORE. 2480

Phone: (02) 66228733

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Emergency : (02) 66242692

MATERIAL SAFETY DATA SHEET

Product : **PEROXY-CLEAN**

Date of Issue : SEPT 2006

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Email: mountain@nor.com.au

SECTION 1 – STATEMENT OF HAZARDOUS NATURE, CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

This product is classified as **HAZARDOUS (IRRITANT)** according to criteria of the National Occupational Health and Safety Commission Australia. This product is **NOT classified as Dangerous Goods** according to the Australian Dangerous Goods (ADG) Code. This product is classified as a **Schedule 6 Poison** according to the SUSDP.

SUPPLIER:	MOUNTAIN CLEANING PRODUCTS		
ADDRESS:	777 Snow Street, South Lismore, NSW, 2480		
Trade Name:	"PEROXY-CLEAN"		
TELEPHONE:	(02) 66228733	FAX:	(02) 66228744
AH EMERGENCY TELEPHONE:	13 1126 in Australia	ABN:	
Substance:	Water based cleaner	Product Use:	Detergent/sanitizer
Creation Date:	SEPT 2006	Revision Date:	SEPT 2011
Product Code:			

SECTION 2 – HAZARDS IDENTIFICATION

Approved Criteria Classification (calculated)	Xi – IRRITANT R36/38 Irritating to eyes and skin. S1/2 - Keep locked up and out of reach of children. S3 Keep in a cool place. S28 After contact with skin, wash immediately with plenty of soap-suds. S36/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible).		
UN Number	none allocated	ADG Classification	none allocated
Shipping Name	none allocated	ADG Subsidiary Risk	none allocated
Hazchem Code	none allocated	Packing Group	none allocated
SUSDP Classification	S6 POISON		

EMERGENCY OVERVIEW

Colour	colouress	Odour	Floral
Physical Description	Liquid	Viscosity	Non-viscous liquid
Major Health Hazards	IRRITANT – skin, eyes, mucous membranes.		

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".

Ingredients:	CAS Number:	Proportion:	Exposure Standards TWA	Exposure Standards STEL
Hydrogen peroxide	7722-84-1	10 – 30% w/w	1.4 mg/m ³ (1 ppm)	Not set
Ingredients determined to be non-hazardous	various	< 10 % w/w	not set	not set
Water	7732-18-5	30 - 60 % w/w	not set	not set

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

Scheduled Poisons	Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons. (Phone Australia 131126 or New Zealand 03 474 7000).
First Aid Facilities	Normal washroom facilities. Safety shower and emergency eye wash.

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Inhalation	Remove victim to fresh air away from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position, keep warm and to rest. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a face mask. If breathing has stopped apply artificial respiration at once. Seek immediate medical advice (e.g. doctor).
Skin contact	Wash skin with plenty of water. Remove contaminated clothing and wash before re-use. Seek medical advice (e.g. doctor) if irritation, burning or redness develops.
Eye contact	Immediately irrigate with copious quantities of water for at least 20 minutes. Eyelids to be held open. Seek medical advice (e.g. ophthalmologist).
Ingestion	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).
Advice to Doctor	No specific antidote. 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 or in Christchurch, New Zealand can provide additional assistance for scheduled poisons.
Aggravated Medical Conditions	None known.

SECTION 5 – FIRE FIGHTING MEASURES

Fire and Explosion Hazards	Water based. Not combustible. However if involved in a fire will emit toxic fumes. Will accelerate burning when involved in a fire. May explode on heating, shock, friction or contamination. Some will react explosively with hydrocarbons (fuels). May ignite combustibles (wood, paper, clothing, etc). Fire may produce irritating, poisonous, and/or corrosive gases. Containers may explode on heating. Runoff may create fire or explosion hazard.
Extinguishing Media	Use carbon dioxide (CO2) fire extinguisher, water fog or fine water spray.
Fire Fighting	Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion or decomposition. Evacuate area - move upwind of fire.
Flash Point	None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Emergency Procedures	HAZCHEM CODE : None allocated
Occupational Release	Minor spills do not normally need any special clean-up measures. In the event of a major spill, prevent spillage from entering drains or water courses. Wear appropriate protective equipment as in section 8 below to prevent skin and eye contamination. Spilt material may result in a slip hazard and should be absorbed into dry, inert non-combustible material (e.g. sand, earth or vermiculite), which then can be put 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

Handling	Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with water after handling.
Storage	Store in a cool, dry, place with good ventilation. Avoid storing in aluminium and light alloy containers. Store away from incompatible materials (Section 10). Keep containers closed at all times – check regularly for leaks. Slow decomposition of peroxide in strong sealed containers can build up sufficient pressure to burst containers explosively. Vented containers must be stored upright. Loosen caps slowly to release any pressure.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

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Exposure Limits	National Occupational Exposure Limits, as published by National Occupational Health & Safety Commission: Time-weighted Average (TWA): None established for specific product. See SECTION 3 for Exposure Limits of individual ingredients. Short Term Exposure Limit (STEL): None established for specific product. See SECTION 3 for Exposure Limits of individual ingredients. IDLH Value: 75 ppm IDLH = Immediately Dangerous to Life or Health Note : In these recommendations, the IDLH concentration is defined as the maximum concentration which would not cause any escape impairing symptoms or irreversible health effects to a person exposed for 30 minutes if the respirator failed.
Biological Limit Value	None established for product.
Engineering Controls	Ensure ventilation is adequate to maintain air concentrations below exposure standards. Avoid generating mists of the product. Use only in a well-ventilated area. Ensure airflow, where this product is used, is directed away from the operators. Where high contaminant spray mist or vapour levels exist, ie, approaching the exposure limit, the following additional equipment is required: For short elevated exposures, eg, spillages:- Appropriate organic vapour cartridge respirator as per the requirements of AS/NZS 1715 and AS/NZS 1716 (Respiratory protective devices). For prolonged exposure and confined spaces:- full face air supplied or self contained breathing apparatus (if vapour levels exceed the Exposure Limit by more than ten times, air supplied apparatus should be used).
Personal Protective Equipment	This product in concentrated form has been classified as an irritant. Upon dilution of 1 part product with 3 parts water, the solution is no longer classified as hazardous according to the criteria of Worksafe Australia. Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. Final choice of appropriate protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. The following protective equipment should be available;
Eye Protection 	The use of chemical goggles or a face shield is recommended. Contact lenses pose a special hazard ; soft lenses may absorb irritants and all lenses concentrate them.
Skin Protection 	Wear gloves to handle diluted solutions. Overalls, apron, rubber boots and elbow length gloves are recommended for handling the concentrated product (as per AS/NZS 2161, or as recommended by supplier) to handle in quantity, cleaning up spills, decanting, etc.
Protective Material Types	Material suitable for detergent contact – Butyl rubber, Natural Latex, Neoprene, PVC, and Nitrile.
Respirator 	No respirator should be required under normal conditions of use in well-ventilated areas provided air concentrations are below exposure standards. For unknown concentrations or immediately dangerous to life or health use self-contained breathing apparatus with a full face-mask. For short elevated exposures, eg, spillages:- Appropriate organic vapour cartridge respirator as per the requirements of AS/NZS 1715 and AS/NZS 1716 (Respiratory protective devices). For prolonged exposure and confined spaces:- full face air supplied or self contained breathing apparatus (if vapour levels exceed the Exposure Limit by more than ten times, air supplied apparatus should be used). EMERGENCY OR PLANNED ENTRY INTO UNKNOWN CONCENTRATION OR IDLH CONDITIONS: Positive pressure, with full-facepiece SCBA or positive pressure, full-facepiece SAR with an auxiliary positive pressure SCBA. (3M Respirator Selection Guide) Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. ABBREVIATIONS: SAR = supplied air respirator. SCBA = self contained breathing apparatus.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Non-viscous liquid	Colour	Clear
Odour	floral odour.	Specific Gravity	1.0 – 1.05 @ 25 °C
Boiling Point	Approximately 100 °C.	Freezing Point	Approximately 0 °C
Vapour Pressure	Not available	Vapour Density	Not available.
Flash Point	Not flammable	Flammable Limits	none

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Water Solubility	Miscible in all proportions.	pH	4 - 5 neat
Volatile Organic Compounds (VOC)	0 % v/v.	Coefficient of Water/Oil Distribution	Not available.
Viscosity	Not available.	Odour Threshold	Not available.
Evaporation Rate	Not available.	Per Cent Volatile	Ca 80 % v/v.

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability	Stable at normal temperatures and pressure. Contamination of product and exposure to light and heat will accelerate decomposition. Solutions gradually deteriorate. Readily decomposed by dirt, undistilled water and heavy metal ions, liberating oxygen. Gross contamination can cause violent decomposition of concentrated solutions.
Conditions to Avoid	ALKALI: violent reaction can occur, yielding heat and pressure which can burst an enclosed container.
Incompatible Materials	Reacts vigorously with alkalis. Reacts with metal salts, oxidizers and reducing agents. Alkalies, glycerin, hydrazine, alcohol, carbon, oil, resins and finely divided metals.
Hazardous Decomposition Products	Product can decompose on combustion to form Carbon Monoxide, Carbon Dioxide, and other possibly toxic gases and vapours.
Hazardous Reactions	Reacts vigorously with alkalis.

SECTION 11 – TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

PRODUCT MIXTURE INFORMATION

Local Effects	Irritant: eye, skin, inhalation and ingestion.
Target Organs	Eyes, mucous membranes, skin, lungs.
Ingestion	
short term exposure	May cause irritation to the mucous membranes of the mouth, pharynx, oesophagus and gastrointestinal tract with upper abdominal pain, 'heartburn', nausea, vomiting, and diarrhea. 'Coffee grounds' vomitus and 'black tarry' stools may occur as a result of gastrointestinal bleeding. After absorption of large quantities there is a risk of perforation in the oesophagus and stomach. Gross over exposure by ingestion may be fatal.
long term exposure	Potential symptoms of overexposure are irritation of eyes, nose, throat and skin, corneal ulceration, erythema, vesicles on skin and bleaching of hair.
Skin contact	
short term exposure	Irritating to skin. Contact may result in drying, rash, discomfort and bleaching of the skin and hair.
long term exposure	Potential symptoms of overexposure are irritation of eyes, nose, throat and skin, corneal ulceration, erythema, vesicles on skin and bleaching of hair.
Eye contact	
short term exposure	Irritating to eyes. Splashes in the eye can cause severe eye damage with ulceration of the cornea, and may cause eye damage.
long term exposure	Repeated overexposure may lead to chronic conjunctivitis.
Inhalation	
short term exposure	No vapour or mist generally associated with liquid form of the product – water based. Aerosols of this product containing ingredient hydrogen peroxide are irritant to the respiratory system. Breathing this material may be harmful. Vapour may cause irritation to the nose, throat and upper respiratory tract, nausea and headache, possible difficulty in breathing and shortness of breath.
long term exposure	No information.
Carcinogen Status	Hydrogen peroxide [7722-84-1] is evaluated in the IARC Monographs (Vol. 36, Suppl. 7, Vol. 71; 1999) as Group 3: Not classifiable as to carcinogenicity to humans.
NOHSC	No significant ingredient is classified as carcinogenic by NOHSC.
NTP	No significant ingredient is classified as carcinogenic by NTP.
IARC	No significant ingredient is classified as carcinogenic by IARC.

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Medical conditions aggravated by exposure	Persons with pre-existing skin disorders or eye problems, or impaired kidney or respiratory function may be more susceptible to the effects of the substance.
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CLASSIFICATION OF INDIVIDUAL INGREDIENTS

Individual Ingredient Information

NOTE : This information relates to each individual ingredient, when evaluated as pure undiluted chemical. See Section 3 for proportions of ingredients present in the product.

Ingredients	R-Phrases.
Hydrogen Peroxide	R36/38 – Irritating to eyes and skin.

Hydrogen Peroxide

Irritation Data	LD50 (rabbit): 4060 mg/kg (90% solution). Corrosive to skin - Contact may result in drying, rash, discomfort and bleaching of the skin and hair. Corrosive to eyes.
Toxicity Data	Ingestion - LD50 (rat): 2000 mg/kg (90% solution) Inhalation - LC50 (rat): 2000 mg/m ³ /4 h (90% solution)
Local Effects	Corrosive: inhalation, skin, eye, ingestion
Chronic Toxicity	Potential symptoms of overexposure are irritation of eyes, nose, throat and skin, corneal ulceration, erythema, vesicles on skin and bleaching of hair.
Target Organs	Skin, mucous membranes, eyes.
Acute Toxicity	Slightly Toxic: ingestion
Reproductive Effects	No available information.
Mutagenic Data	No available information.
Carcinogenic Data	Hydrogen peroxide [7722-84-1] is evaluated in the IARC Monographs (Vol. 36, Suppl. 7, Vol. 71; 1999) as Group 3: Not classifiable as to carcinogenicity to humans.

SECTION 12 – ECOLOGICAL INFORMATION

Fish toxicity	In high concentrations: Toxic effect on fish and plankton. C. carpio LC50: 42 mg/l/48 h (30% solution).
Algae toxicity	Chlorella vulgaris CI50: 2.5 mg/l/72 h (30% solution).
Invertebrates toxicity	None available.
Toxicity to Bacteria	Daphnia magna EC50: 7.7 mg/l/24 h (30% solution).
OECD Biological degradation	Individual components stated to be biodegradable. When introduced properly, no impairments in the function of adapted biological waste-water-treatment plants are to be expected.
General	Product miscible in all proportions with water. DO NOT DISCHARGE BULK QUANTITIES INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT. Inform local authorities if this occurs.

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.
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SECTION 14 – TRANSPORT INFORMATION

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

SECTION 15 – REGULATORY INFORMATION

AICS	All ingredients present on AICS.
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SECTION 16 – OTHER INFORMATION

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Labeling Details	HAZARD	Xi	IRRITANT
	RISK PHRASES	R36/38	Irritating to eyes and skin.
	SAFETY PHRASES	S(1/2)	Keep locked up and out of reach of children.
		S3	Keep in a cool place.
		S28	After contact with skin, wash immediately with plenty of soap-suds.
		S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
		S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible).
	SUSDP	S6	POISON
	ADG Code	NIL	
Acronyms	SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons.	
	ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail.	
	CAS Number	Chemical Abstracts Service Registry Number.	
	UN Number	United Nations Number.	
	R-Phrases	Risk Phrases.	
	HAZCHEM	An emergency action code of numbers and letters which gives information to emergency services.	
	NOHSC	National Occupational Health and Safety Commission.	
	NTP	National Toxicology Program (USA).	
	IARC	International Agency for Research on Cancer.	
	AICS	Australian Inventory of Chemical Substances.	
	TWA	Time Weighted Average	
	STEL	Short Term Exposure Limit	
Literature References	List of Designated Hazardous Substances [NOHSC:10005(1999)]		
	Australian Code For The Transport Of Dangerous Goods By Road And Rail – Sixth Edition.		
	Standard for the Uniform Scheduling of Drugs and Poisons.		
	National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]		
	Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]		
	Material Safety Data Sheets – individual raw materials – Suppliers.		
	HSIS – Hazardous Substance Information System – National Worksafe Data Base.		
Revision Information	New Issue to standard : 2nd Edition [NOHSC:2011(2003)].		
Note	Safety Data Sheets are updated frequently. Please ensure that you have a current copy.		
Contact Point	Regulatory Affairs Manager.	Telephone	(02) 66228733
Issue Date	SEPT 2006	Supersedes Issue Date	NOV 2005
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.			