



MATERIAL SAFETY DATA SHEET

ECOCLEAN UTILITY AGENCIES	PRODUCT : EZY OFF – HEAVY DUTY CLEANER
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SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Trade Name:	EZY OFF – HEAVY DUTY CLEANER		
SUPPLIER:	ECOCLEAN UTILITY AGENCIES	ABN:	72 135 037 160
TELEPHONE:	(07) 5549 3666	FAX:	(07) 5549 3622
EMERGENCY PHONE:	13 1126 in Australia.	Product Code:	
Substance:	Aqueous liquid	Product Use:	Detergent
Creation Date:	OCT 2013	Revision Date:	OCT 2018
ADDRESS:	26 Notar Drive, Ormeau, Queensland, 4208 Australia.		

SECTION 2 – HAZARDS 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 Scheduled 5 Poison** according to the SUSDP.

Approved Criteria Classification



Xi - IRRITANT

R36/38 – Irritating to skin and eyes.

S(1/2) – Keep locked up and out of reach of children.

S24/25 - Avoid contact with skin and eyes.

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).

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	S5 CAUTION		

EMERGENCY OVERVIEW

Colour	Red	Odour	Glycol odour
Physical Description	Liquid	Viscosity	Non-viscous liquid
Major Health Hazards	Irritant – eyes, skin, mucous membranes.		

SECTION 3 - COMPOSITION/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
Disodium metasilicate	6834-92-0	< 10% w/w	not set	not set
1-methoxy-2-propanol	107-98-2	< 10% w/w	100ppm	not set
Ingredients determined to be non-hazardous	Various	10 – 30 % w/w	not set	not set
Water	7732-18-5	> 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



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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.
Aggravated Medical Conditions caused by exposure	None known.
Inhalation	Remove victim to fresh air away from exposure. Obtain medical attention if symptoms occur.
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) if there is irritation.
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	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.

SECTION 5 – FIRE FIGHTING MEASURES

Fire and Explosion Hazards	Non-flammable. Water based.
Extinguishing Media	Use an extinguishing media suitable for surrounding fires.
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.
Flash Point	None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Occupational Release	Minor spills do not normally need any special clean-up measures. Rinse with water. 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 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. Flush spill area with water. Residual deposits will remain slippery. If contamination of sewers or waterways has occurred advise the local emergency services. In the event of a spillage notify the local environment protection authority or emergency services.
Emergency Procedures	None

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. 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.

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.
Biological Limit Values	None
Ventilation	Ensure ventilation is adequate.
Personal Protective Equipment	This product is classified as hazardous according to the criteria of Worksafe Australia. Upon dilution with an equal volume of water (1:1), the product is classified as non-hazardous. 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 safety glasses with side shield protection is recommended to handle in quantity, cleaning up spills, decanting, etc. Contact lenses pose a special hazard ; soft lenses may absorb irritants and all lenses concentrate them.
Skin Protection 	Wear normal work clothes, boots and impervious gloves (as per AS/NZS 2161, or as recommended by supplier) to handle concentrate in quantity, cleaning up spills, decanting, prolonged contact, 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.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Non-viscous liquid	Colour	Red
Odour	Glycol odour	Specific Gravity	1.065 – 1.085 @ 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
Water Solubility	Miscible in all proportions.	pH	12.8 - 13.7 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.
Conditions to Avoid	Avoid contact with heat or heat sources.
Incompatibilities	Reducing agents, oxidizing agents.
Hazardous Decomposition	None known.
Hazardous Reactions	None known.

SECTION 11 – TOXICOLOGICAL INFORMATION

PRODUCT MIXTURE INFORMATION	
Local Effects	Irritant: eye, skin, inhalation and ingestion.
Target Organs	Eyes, mucous membranes, skin.



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POTENTIAL HEALTH EFFECTS	
Ingestion	
short term exposure	Swallowing can result in nausea, vomiting of blood and eroded tissue; chemical burns of the mouth, throat & abdomen; perforation of the gastrointestinal tract.
long term exposure	No information available.
Skin contact	
short term exposure	Irritating to skin - may cause skin burns, severe irritation. Corrosion will continue until removed. Severity depends on the concentration and duration of exposure. Burns are not immediately painful; onset of pain may be minutes to hours.
long term exposure	Prolonged and repeated skin contact with solutions may induce eczematoid dermatitis in certain individuals.
Eye contact	
short term exposure	Corrosive to eyes; contact can cause corneal burns.
long term exposure	No information available.
Inhalation	
short term exposure	Inhalation of mists or aerosols can produce mucous membrane and respiratory irritation.
long term exposure	No information available.
Carcinogen Status	
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.
Classification of Hazardous Ingredients	
NOTE : This information relates to each individual ingredient, when evaluated as pure undiluted chemical. See Section 3 for actual proportions present in this product.	
Ingredients	R-Phrases.
Disodium metasilicate	R34, R37
1-methoxy-2-propanol	R10 – Flammable
1-methoxy-2-propanol (PGME) 100%	
Irritation Data	PGME is not a skin sensitizer or skin irritant, and was only slightly irritating to the eye.
Toxicity Data	PGME exhibits low acute toxicity by the oral, dermal, and inhalation routes. The oral LD 50 ranges from 1,840 mg/kg in rabbits, 4,600 mg/kg in dogs, to >5,000 mg/kg in rats. Dermal LD 50 values were 13-14 gm/kg in rabbits. Inhalation LC 50 values were generally above 6,000 ppm for rats, mice, and guinea pigs. In repeated dose studies (11 days to six months) NOAELs of 300 ppm and higher have been observed in inhalation studies using rats, mice, rabbits, guinea pigs, and monkeys. Effects observed included sedation, hepatic changes, and decrease in body weight gain. NOAELs (oral) of 459.5 mg/kg and 919 mg/kg were observed in rat studies lasting 13 and 5 weeks, respectively.
Local Effects	Irritant: inhalation, skin, eye.
Target Organs	Skin, eyes.
Acute Toxicity Level	Harmful- inhalation, dermal absorption, ingestion.
Mutagenic Data	In reproductive toxicity testing, effects observed at 3000 ppm appear to be related to decreased maternal body weights and secondary to general toxicity and nutritional stress. Decreased maternal body weights were also noted at 1000 ppm. The NOAELs observed in the two-generation study were 300 ppm for adults and 1,000 ppm for offspring.
Reproductive Effects Data	Studies in rats, mice, and rabbits showed that PGME was not teratogenic (two inhalation and three gavage studies with teratogenicity NOAELs of 3000 ppm and 800 to 2000 mg/kg, respectively).



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100% Disodium metasilicate

Irritation Data	Hazardous in case of skin contact (corrosive), of ingestion (corrosive), of inhalation (lung irritant). Causes burns Eye: Risk of serious damage to eyes. Respiratory: Irritating to respiratory system. Sensitization: No sensitizing (30% w/w in a formulation). 250 mg/24 hour(s) skin-human : severe 250 mg/24 hour(s) skin-rabbit : severe 250 mg/24 hour(s) skin-guinea pig : moderate.
Toxicity Data	1153 mg/kg oral-rat LD50; 770 mg/kg oral-mouse LD50; 250 mg/kg oral-dog LDLo; 250 mg/kg oral-pig LDLo; 200 mg/kg intraperitoneal-guinea pig LDLo. Other toxicological information: The toxic effects of the product are caused by the alkalinity and not by substance specific corrosive nature of the product.
Local Effects	Corrosive: inhalation, skin, eye, ingestion
Target Organs	Skin, mucous membranes, eyes.
Acute Toxicity Level	Moderately Toxic: ingestion
Mutagenic Data	Gentoxicity: Not mutagenic (in vitro)
Reproductive Effects Data	15 gm/kg oral-rat TDLo 14 week(s) male week(s) pre pregnancy/14 week(s) post pregnancy/3 week(s) continuous; 9766 ug/kg subcutaneous-rat TDLo 1 day(s) male; 9766 ug/kg intratesticular-rat TDLo 1 day(s) male.

SECTION 12 – ECOLOGICAL INFORMATION

Fish toxicity	None available.
Algae toxicity	None available.
Invertebrates toxicity	None available.
Toxicity to Bacteria	None available.
OECD Biological degradation	Individual components stated to be biodegradable. Product does not bio-accumulate significantly and is slightly toxic to aquatic organisms.
Mobility	Mobile
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

Disposal Methods	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. As with any chemical, do not put down the drain in quantity. The small quantities contained in wash solutions (when used as directed) can generally be handled by conventional sewage systems, septic, and grey water systems. For larger scale use, eg. Commercial laundry operations, a recycled water system is often recommended, or Trade Waste License obtained for disposal to sewer.
Special Precautions	None known.

SECTION 14 – TRANSPORT INFORMATION

UN Number	none allocated	ADG Code	none allocated
HAZCHEM Code	none allocated	Packing Group	none allocated
Special Provisions	none allocated	Packaging Method	none allocated
Segregation	none allocated		

SECTION 15 – REGULATORY INFORMATION

AICS	All ingredients present on AICS.
Labeling Details	
HAZARD	Xi - IRRITANT



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RISK PHRASES	R36/38 – Irritating to skin and eyes.
SAFETY PHRASES	S(1/2) – Keep locked up and out of reach of children. S24/25 - Avoid contact with skin and eyes. 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	S5 CAUTION (ALKALINE SALTS)
ADG Code	none allocated

SECTION 16 – OTHER INFORMATION

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)]		
	Material Safety Data Sheets – individual raw materials – Suppliers.		
	Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]		
	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	(07) 5549 3666
Issue Date	OCT 2013	Supersedes Issue Date	May 2009
Note	Safety Data Sheets are updated frequently. Please ensure that you have a current copy.		

This MSDS summarises 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 **ECOCLEAN UTILITY AGENCIES** 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.