

1. Identification of Substance & Company

Product

Product name	BioClean Degreaser
Product codes	BIO/1, BIO/5, BIO/20
HSNO approval	HSR002530
Approval description	Cleaning Products (Subsidiary Hazard) Group Standard 2020
UN number	NA
DG class	NA
Proper Shipping Name	NA
Packaging group	NA
Hazchem code	NA
Uses	General purpose cleaner
Uses	General purpose cleaner

Company Details

Company Address

Telephone Email Website

GreenEarth Solutions Ltd

PO Box 64-125 Botany Auckland 2163 New Zealand 0064 9 272 4141 mail@greenearth.co.nz www.greenearth.co.nz

Emergency Telephone Number: 09 272 4141

2. Hazard Identification

Approval

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002530, Cleaning Products (Subsidiary Hazard) Group Standard 2020). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Hazard Classification) Notice 2020.

Classes	Hazard Statements
Skin irritation cat 2 Eye damage cat 1 SYMBOLS DANGER	H315 - Causes skin irritation. H318 - Causes serious eye damage.



Other Classifications

There are no other Classifications that are known to apply.

Precautionary Statements			
Prevention	P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P103 - Read label before use P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves/eye protection.		
Response	 P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P332+P313 - If skin irritation occurs: Get medical advice/ attention. P362 - Take off contaminated clothing and wash before re-use. 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 CENTRE or doctor/physician. 		
Storage Disposal	none P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.		
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3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Surfactant	proprietary	1-5
Monobutyl glycol ether	proprietary	1-5
Monoethanolamine	proprietary	0.5-1.5
Sodium metasilicate	6834-92-0	0.5-1.5
Ingredients not contributing to GHS classes including water, dyes, fragrance	Mixture	balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. First Aid

General Information

If medical advice is needed, have product container or label at hand. You should call the National Poisons Centre if you feel that you may have been harmed burned or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).			
Recommended first aid facilities	Ready access to running water is required. Accessible eyewash is required.		
Exposure			
Swallowed	Do NOT induce vomiting. Give a glass of water to drink. Contact a doctor. If conscious, give plenty of water to drink. DO NOT INDUCE vomiting. Contact the National Poisons Centre or a Doctor immediately. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs.		
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician.		
Skin contact	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before re-use.		
Inhaled	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 victim at rest until fully recovered. If breathing is laboured and patient cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a face mask. If breathing has stopped, apply artificial respiration at once. In event of cardiac arrest, apply cardiopulmonary resuscitation (CPR) if trained. Seek medical attention.		

Advice to Doctor

Treat symptomatically

5. **Firefighting Measures** Fire and explosion hazards: There are no specific risks for fire/explosion for this chemical. It is non-flammable. Suitable extinguishing Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or substances: alcohol resistant foam. Unsuitable extinguishing Unknown. substances: Products of combustion: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Water. May form toxic mixtures in air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. **Protective equipment:** Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection. Hazchem code: NA **Accidental Release Measures** 6. Containment If greater than 10000L is stored, secondary containment and emergency plans to manage any potential spills must be in place. In all cases design storage to prevent

Emergency proceduresmanage any potential spills must be in place. In all cases design storage to prevent
discharge to stormwater.In the event of spillage alert the fire brigade to location and give brief description of
hazard. Stop the source of the leak, if safe to do so. Shut off all possible sources of
ignition. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear
area of any unprotected personnel. Contain using sand, earth or vermiculite. Do not use



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	sawdust on concentrate. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses. (If this occurs contact your regional council immediately).
Clean-up method	Use absorbent (soil, sand or other inert material). Rags are not recommended for the clean-up of spills, as they may create fire or environmental hazard. Collect and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
Disposal	Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.
Precautions	Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.
7. Storage & Handling	
Storage	Avoid storage of harmful substances with food. Store out of reach of children.

StorageAvoid storage of harmful substances with food. Store out of reach of children.
Containers should be kept closed in order to minimise contamination. Keep from
extreme heat and open flames. Avoid contact with incompatible substances as listed in
Section 10.HandlingKeep exposure to a minimum, and minimise the quantities kept in work areas. See
section 8 with regard to personal protective equipment requirements. Avoid skin and eye
contact and inhalation of vapour, mist or aerosols.

8. Exposure Controls / Personal Protective Equipment

Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by WorkSafe NZ for this product. There is a general limit of 3mg/m³ for respirable particulates and 10mg/m³ for inhalable particulates when limits have not otherwise been established.

NZ Workplace	Ingredient	WES-TW/
Exposure Stds	2-butoxyethanol	25ppm, 12
-	monoethanolamine	3ppm, 7.5

ES-TWA* 5ppm, 121mg/m³ (skin) 5pm, 7.5mg/m³ WES-STEL data unavailable 6ppm, 15mg/m³

Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety at Work Act (2015) and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016. Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

Personal Protective Equipment



Protect eyes with goggles, safety glasses or full face mask. Avoid wearing contact lenses.

Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves. Rubber gloves are recommended. Replace frequently. Gloves should be checked for tears or holes before use. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking.

Respiratory

A respirator when airborne concentrations approach the WES (section 8). Use a respirator with an organic vapour cartridge. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

WES Additional Information

Not applicable

9. Physical & Chemical Properties

Appearance	clear green liquid
Odour	eucalyptus odour
рН	11
Vapour pressure	no data
Viscosity	no data
Boiling point	~100°C
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Volatile materials Freezing / melting point Solubility Specific gravity / density Flash point Danger of explosion Auto-ignition temperature Upper & lower flammable limits Corrosiveness

no data soluble in water 1.04 (water = 1) not applicable not explosive no data no data non corrosive

no data

10. Stability & Reactivity

Stability Conditions to be avoided	Stable Containers should be kept closed in order to avoid contamination. Keep from extreme heat and open flames.
Incompatible groups Substance Specific Incompatibility	Oxidisers, acids, bases none known
Hazardous decomposition products	Oxides of carbon, fragmented hydrocarbons.
Hazardous reactions	none known

11. Toxicological Information

Summary

IF SWALLOWED: may gastrointestinal irritation, nausea, vomiting.

IF IN EYES: can cause watering, blurred vision and irritation which can result in corneal damage.

IF ON SKIN: may irritation, non allergic dermatitis and defatting of the skin.

IF INHALED: may cause irritation of the respiratory system.

Supporting Data

	<i>y</i>			
Acute	Oral	Using LD ₅₀ 's for ingredients, the calculated LD ₅₀ (oral, rat) for the mixture is >2000 mg/k Data considered includes: water n/a, 2-butoxyethanol 1414mg/kg (guinea pig), also aspiration toxicity, monoethanolamine 600-800 mg/kg (rat), Sodium metasilicate 1280mg/kg (rat).		
	Dermal	Using LD_{50} 's for ingredients, the calculated LD_{50} (dermal, rat) for the mixture is >2000 mg/kg. Data considered includes: water n/a, Synthecol AO NA, 2-butoxyethanol >2000mg/kg (guinea pig), monoethanolamine 1000 mg/kg (rabbit), Sodium metasilicate.		
	Inhaled	Using LC_{50} 's for ingredients, the calculated LC_{50} (inhalation, rat) for the mixture is 20mg/L. Data considered includes: 2-butoxyethanol 2.174 mg/L (rat, mist). monoethanolamine 2.45mg/I (mouse, rabbit).		
	Еуе	The mixture is considered to be corrosive to the eye, because some of the ingredients present at >3% are considered eye corrosives.		
	Skin	The mixture is considered to be a skin irritant, because some of the ingredients present are considered skin irritants in more concentrated form.		
Chronic	Sensitisation	No ingredient present at concentrations > 0.1% is considered a sensitizer.		
	Mutagenicity	No ingredient present at concentrations $> 0.1\%$ is considered a mutagen.		
	Carcinogenicity	No ingredient present at concentrations > 0.1% is considered a carcinogen.		
	Reproductive /	No ingredient present at concentrations > 0.1% is considered a reproductive or		
	Developmental	developmental toxicant or have any effects on or via lactation.		
	Systemic	No ingredient present at concentrations > 1% is considered a target organ toxicant.		
	Aggravation of	None known.		
	existing conditions			

12. Ecological Data

Summary

This mixture may be harmful towards aquatic organism, if not diluted. Prevent discharge to sewers, drains and waterways.

Supporting Data

Aquatic

Bioaccumulation Degradability

mg/L. Data considered includes: water n/a, surfactant: 0.71 - 1 mg/l (96hr, Brachydanio rerio (Fish, fresh water) . No data No data

Using EC_{50} 's for ingredients, the calculated EC_{50} for the mixture is between 1 and 100



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Soil Terrestrial vertebrate Terrestrial invertebrate Biocidal Environmental effect levels	No evidence of soil toxicity. This mixture is not considered harmful towards terrestrial vertebrates No evidence of ecotoxicity towards terrestrial invertebrates. no data No EELs are available for this mixture or ingredients		
13. Disposal Considerations			
Restrictions	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.		
Disposal method	Disposal of this product must comply with the Hazardous Substances (Disposal) Notice 2017 and the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.		
Contaminated packaging	Disposal of contaminated packaging must comply with the Hazardous Substances (Disposal) Notice 2017 clause 12. Ensure that the package is rendered incapable of containing any substance and is disposed in a manner that is consistent with the requirements of the substance it contained and the material of the package. If possible reuse or recycle packaging.		

14. Transport Information

Land Transport Rule: Dangerous Goods 2005 - NZS 5433:2007 There are no specific restrictions for this product (not a dangerous good). UN number: NA Proper shipping name: NA				
Class(es)	NA	Packing group:	NA	
Precautions:	NA	Hazchem code:	NA	
IMDG				
UN number:	NA	Proper shipping name:	Not regulated	
Class(es)	NA	Packing group:	NA	
Precautions:	NA	EmS	NA	
ΙΑΤΑ				
UN number:	NA	Proper shipping name:	Not regulated	
Class(es)	NA	Packing group:	NA	
Precautions:	NA	ERG Guide	NA	

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002530, Cleaning Products (Subsidiary Hazard) Group Standard 2020. All ingredients appear on the NZIoC.

Specific Controls

SDS To be available within 10 minutes in workplaces storing any quantity.		
	SDS	To be available within 10 minutes in workplaces storing any quantity.
Inventory An inventory of all hazardous substances must be prepared and maintained.	Inventory	An inventory of all hazardous substances must be prepared and maintained.
Packaging All hazardous substances should be appropriately packaged including substances that have been decanted, transferred or manufactured for own use or have been supplied	Packaging	substances that have been decanted, transferred or manufactured for own use
Labelling Must comply with the Hazardous Substances (Labelling) Notice 2017.	Labelling	Must comply with the Hazardous Substances (Labelling) Notice 2017.
Emergency plan Required if > 10000L is stored.	Emergency plan	Required if > 10000L is stored.
Certified handler Not required.	Certified handler	Not required.
Tracking Not required.	Tracking	Not required.
Bunding & secondary containment Required if > 10000L is stored.	Bunding & secondary containment	Required if > 10000L is stored.
Signage Required if > 1000L is stored.	Signage	Required if > 1000L is stored.
Location test certificate Not required.	Location test certificate	Not required.
Flammable zone Not required.	Flammable zone	Not required.
Fire extinguisher Not required.	Fire extinguisher	Not required.

Note: The above workplace requirements apply if only this particular substance is present. The complete set of controls for a location will depend on the classification and total quantities of other substances present in that location.



Other Legislation

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health and Safety at Work Act 2015 and the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016, local Council Rules and Regional Council Plans.

16. Other Information

Abbreviations Approval HSR002530, Cleaning Products (Subsidiary Hazard) Group Standard 2020 **Approval Code** Controls, EPA. www.epa.govt.nz **CAS Number** Unique Chemical Abstracts Service Registry Number Ecotoxic Concentration 50% - concentration in water which is fatal to 50% of a test EC50 population (e.g. daphnia, fish species) **EPA** Environmental Protection Authority (New Zealand) Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised GHS edition, 2017, published by the United Nations. **HAZCHEM** Code Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters **HSNO** Hazardous Substances and New Organisms (Act and Regulations) IARC International Agency for Research on Cancer LEL Lower Explosive Limit LD50 Lethal Dose 50% - dose which is fatal to 50% of a test population (usually rats). LC50 Lethal Concentration 50% - concentration in air which is fatal to 50% of a test population (usually rats) NZIOC New Zealand Inventory of Chemicals STEL Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded TWA Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours) UFI Upper Explosive Limit **UN Number United Nations Number** WES Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours, 5 days a week). The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the worker's breathing zone. References Unless otherwise stated comes from the EPA HSNO chemical classification information Data database (CCID). EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances) Controls Regulations 2017, www.legislation.govt.nz WES The latest NZ Workplace Exposure Standards, published by WorkSafe NZ and available on their web site - www.worksafe.govt.nz. **Other References:** EU ECHA, ingredients SDS's, ChemIDplus Review Date Reason for review May 2017 Not applicable - new SDS March 2022 5 yearly review, HSNO to GHS

Disclaimer

This SDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the SDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely GHS classifications for this SDS have been estimated based on general information from the supplier (e.g., hazard, toxicological). This SDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the SDS author, email info@datachem.co.nz or phone: +64 21 1040951.

