

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 2006

UN number NA
DG class NA
Proper Shipping Name NA
Packaging group NA
Hazchem code NA

Uses general purpose cleaner

Company Details

Company GreenEarth Solutions Ltd

Address PO Box 64-125

Botany

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Emergency Telephone Number: 09 272 4141

2. Hazard Identification

Approva

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002530, Cleaning Products (Subsidiary Hazard) Group Standard 2006), and is classified as follows:

Classes Hazard Statements

6.3A
8.3A
9.1D
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H402 - Harmful to aquatic life.

SYMBOLS

DANGER





Other Classifications

There are no other Classifications that are known to apply.

Precautionary Statements

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.

P273 - Avoid release to the environment.

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.



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 HSNO 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. 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

Eye 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

Firefighting Measures

Fire and explosion hazards: Suitable extinguishing substances:

There are no specific risks for fire/explosion for this chemical. It is non-flammable. Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or 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



6. Accidental Release Measures

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

discharge to stormwater.

Emergency procedures 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 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.

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.

Handling Keep 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-TWA* WES-STEL
Exposure Stds (2016) WES-TWA* 25ppm, 121mg/m³ (skin) data unavailable
monoethanolamine 3ppm, 7.5mg/m³ 6ppm, 15mg/m³

* These workplace exposure standards are also Prescribed Exposure Standards (PES) under the Health and Safety at Work (General Risk and Workplace Management) Regulations 2016.

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

Eyes



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

Skin



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

Page 3 of 6 May 2017

Product Name: BioClean Degreaser



cartridges are correct for the potential air contamination and are in good working order.

WES Additional Information

Not applicable

Physical & Chemical Properties

Appearance clear green liquid Odour eucalyptus odour

Ha 11 Vapour pressure no data **Viscosity** no data **Boiling point** ~100°C Volatile materials no data Freezing / melting point no data

soluble in water Solubility Specific gravity / density 1.04 (water = 1)Flash point not applicable **Danger of explosion** not explosive **Auto-ignition temperature** no data **Upper & lower flammable limits** no data Corrosiveness non corrosive

Stability & Reactivity 10.

Stability Stable

Conditions to be avoided Containers should be kept closed in order to avoid contamination. Keep from extreme

heat and open flames.

Incompatible groups Oxidisers, acids, bases

Substance Specific none known

Incompatibility

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

Acute Oral Using LD₅₀'s for ingredients, the calculated LD₅₀ (oral, rat) for the mixture is >5,000

mg/kg. 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 LD₅₀'s for ingredients, the calculated LD₅₀ (dermal, rat) for the mixture is >5000

> 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 LC₅₀'s for ingredients, the calculated LC₅₀ (inhalation, rat) for the mixture is

20mg/L. Data considered includes: 2-butoxyethanol 2.174 mg/L (rat, mist).

monoethanolamine 2.45mg/l (mouse, rabbit).

Eye The mixture is considered to be corrosive to the eye, because some of the ingredients

present at >3% are considered eye corrosives.

The mixture is considered to be a skin irritant, because some of the ingredients present Skin

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 Page 4 of 6

May 2017

Product Name: BioClean Degreaser



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 Using EC₅₀'s for ingredients, the calculated EC₅₀ for the mixture is between 1 and 100

mg/L. Data considered includes: water n/a, surfactant: 0.71 - 1 mg/l (96hr, Brachydanio

rerio (Fish, fresh water).

Bioaccumulation No data **Degradability** No data

Soil No evidence of soil toxicity.

Terrestrial vertebrateThis mixture is not considered harmful towards terrestrial vertebrates

Terrestrial invertebrate No evidence of ecotoxicity towards terrestrial invertebrates.

Biocidal no data

Environmental effect levelsNo EELs are available for this mixture or ingredients

13. Disposal Considerations

RestrictionsThere are no product-specific restrictions, however, local council and resource consent

conditions may apply, including requirements of trade waste consents.

Disposal methodDisposal of this product must comply with 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 Rinse containers with water before disposal. Preferably re-cycle container, otherwise

send to landfill or similar.

14. Transport Information

There are no specific restrictions for this product (not a dangerous good).

UN number:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:NAHazchem code: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 2006.

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key workplace requirements are:

SDS To be available within 10 minutes in workplaces storing > any quantity.

Labelling No removal of labels and/or decanting of product into other containers can occur.

Emergency plan Required if > 10000L is stored.

Approved handler Not required. Tracking Not required.

Bunding & secondary containment Required if > 10000L is stored.

Signage Required if > 1000L is stored in any one location.

Location test certificate Not required.
Flammable zone 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 Code Approval HSR002530, Cleaning Products (Subsidiary Hazard) Group Standard 2006

Controls, EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

Ceiling Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical

agent to which a worker may be exposed at any time.

Controls Matrix List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).

EC₅₀ Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test

population (e.g. daphnia, fish species)

EPA Environmental Protection Authority (New Zealand)

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).

Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population

(usually rats)

MSDS (SDS)

Material Safety Data Sheet (or Safety Data Sheet)

PES Prescribed Exposure Standard means a WES or a biological exposure standard that is

prescribed in a regulation, a safe work instrument or an approval under HSNO (including

group standards).

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)

UELUpper Explosive LimitUN NumberUnited 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

database (CCID).

EPA Transfer Gazettes

WES 2016

Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)
The NZ Workplace Exposure Standards Effective from 2016, published by WorkSafe NZ

and available on their web site - www.worksafe.govt.nz.

WES 2002 Workplace Exposure Standards published by the Occupational Safety and Health

Service, Department of Labour, January 2002, ISBN 0-477-03660-0. These are the WES

referred to under the Group Standard (HSNO approval) and may constitute a PES.

Other References: Suppliers SDS

Review

DateReason for reviewMay 2017Not applicable – new SDS

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 HSNO 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 9 940 30 80.

