

Identification of Substance & Company

Product **Product name**

Green Earth Liquid Soap

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 Liquid soap

Company Details

Company GreenEarth Solutions Ltd

Address PO Box 64-125

Botany

Auckland 2163 New Zealand 0064 9 272 4141 mail@greenearth.co.nz

Telephone Email Website www.greenearth.co.nz

Emergency Telephone Number: 09 272 4141

2. **Hazard Identification**

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:

Hazard Statements

6.3B H316 - Causes mild skin irritation. 6.4A H320 - Causes eye irritation. 9.1D H402 - Harmful to aquatic life.

SYMBOLS

WARNING



Other Classifications

There are no other Classifications that are known to apply.

Precautionary Statements

P103 - Read label before use.

P264 - Wash hands thoroughly after handling*.

P280 - Wear protective gloves/eye protection*.

P273 - Avoid release to the environment.

P332+P313 - If skin irritation occurs: Get medical advice/ attention.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

* These precautionary statements apply handling this substance in bulk. For details of personal protective equipment, please refer to section 8.



3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
sodium lauryl sulphate	9004-82-4	10-30%
coconut derived surfactant	61789-40-0	1-5%
ingredients not contributing to HSNO classes including lemon fragrance, food grade dye	7647-14-5	1-10%
water	7732-18-5	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 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 recommended. Accessible eyewash is recommended.

Exposure

Swallowed

Do NOT induce vomiting. Rinse mouth. Give a glass of water to drink. Contact a doctor

if symptoms occur.

Eye contact Skin contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

IF ON SKIN: rinse affected area with water. Remove contaminated clothing. If skin irritation occurs: Get medical advice/ attention.

Inhaled

Generally, inhalation of vapours is unlikely to result in adverse health effects. If coughing, dizziness or shortness of breath is experienced, remove the patient to fresh air immediately. If patient is unconscious, place in the recovery position (on the side) for

transport and contact a doctor.

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 not classed as

flammable.

Suitable extinguishing

substances:

Carbon dioxide, extinguishing powder or water jet. Fight larger fires with water jet or

alcohol resistant foam.

Unsuitable extinguishing

substances:

Unknown.

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:

No special measures are required.

Hazchem code:

NA

6. Accidental Release Measures

Containment If greater than 1000L 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 If a significant spill occurs:

Stop leak if safe/necessary; Isolate area. Collect spill – see below; Transfer to container

for disposal. Dispose of according to guidelines below (Section 13).

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.

PrecautionsNo special protective clothing is normally necessary.

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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.

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

No ingredient listed.

(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



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible, e.g. when handling the mixture in bulk.

Skin If discomfort is felt (e.g., if pre-existing conditions exist, such as dermatitis, cuts or

sensitive skin), gloves may be helpful. If you suffer from dermatitis type skin conditions, use gloves. Rubber gloves are recommended. Replace frequently. Gloves should be

checked for tears or holes before use.

Respiratory A respirator when airborne concentrations approach the WES (section 8). Use a

respirator with a particulated (dust/mist) filter. 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 green liquid
Odour lemon odour

pH 8.5
Vapour pressure no data
Viscosity no data
Boiling point ~100°C
Volatile materials no data
Freezing / melting point no data

Solubility soluble in water

Specific gravity / density
Flash point
Danger of explosion
Auto-ignition temperature
Upper & lower flammable limits
Corrosiveness

Soluble in Water

~1.0g/ml
not applicable
not explosive
no data
non data



10. Stability & Reactivity

Stability

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

heat and open flames.

Incompatible groups none known **Substance Specific** none known

Incompatibility

Hazardous decomposition

products

none known

Hazardous reactions none known

11. **Toxicological Information**

Summary

IF IN EYES: direct contact with the concentrate may cause eye irritation. IF ON SKIN: direct contact with the concentrate may result in mild skin irritation.

CHRONIC TOXICITY: no effects are known.

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: Surfactant 1600mg/kg (rat).

Dermal No evidence of dermal toxicity. Inhaled No evidence of inhalation toxicity.

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

(surfactants) present are considered eye irritants in more concentrated form. The mixture is considered to be a skin irritant, because some of the ingredients

(surfactant) present are considered skin irritants in more concentrated form. Chronic

Sensitisation No ingredient present at concentrations > 0.1% is considered a sensitizer. The fragrance

may contain small amount of contact sensitisers.

No ingredient present at concentrations > 0.1% is considered a mutagen. Mutagenicity 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**

Skin

Summarv

This mixture is considered harmful in the aquatic environment, if undiluted.

Supporting Data

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

> mg/L and none of the components are considered bioaccumulative or persistent in the aquatic environment. Data considered includes: surfactant, 2.43 - 4.01 mg/L (48h,

Ceriodaphnia dubia).

Soil No evidence of soil toxicity.

Terrestrial vertebrate Not considered ecotoxic towards terrestrial vertebrates. Terrestrial invertebrate No evidence of ecotoxicity towards terrestrial invertebrates.

Biocidal

Environmental effect levels No EELs are available for this mixture or ingredients

Disposal Considerations 13.

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 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

Contaminated packaging Rinse containers with water before disposal. Preferably re-cycle container, otherwise

send to landfill or similar.

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14. Transport Information

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

UN number: Proper shipping name: NA NA NA Class(es) Packing group: NA **Precautions:** Ecotoxic. Hazchem code: NA

Regulatory Information 15.

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 >50L.

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

Required if > 1000L is stored. Emergency plan

Approved handler Not required. Tracking Not required.

Bunding & secondary containment Required if > 1000L is stored. Signage Required if > 10000L is stored.

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.

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

EPA

Approval HSR002530, Cleaning Products (Subsidiary Hazard) Group Standard 2006 **Approval Code**

Controls, EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

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

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) 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

 LD_{50} 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)

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

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)

UEL 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

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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 Transfer Gazettes Classifications and controls assigned for specific ingredients (consolidated gazette, 2004) **WES 2016**

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

Date Reason for review **REVIEW DATE** Not 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 quidelines 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.

