

1. Identification of Substance & Company

Product

Product nameFilter CleanerProduct codeFCDHSNO approvalHSR002530

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 Filter cleaner

Company Details

Company GreenEarth Solutions Ltd

Address PO Box 64-125

Botany

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Telephone0064 9 272 4141Emailmail@greenearth.co.nzWebsitewww.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

Skin irritation cat 2 Eye damage cat 1 SYMBOLS **Hazard Statements**

H315 - Causes skin irritation. H318 - Causes serious eye damage.

DANGER



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. P261 - Avoid breathing vapours.

P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves/eye protection.

Response 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. P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P333+P313 - If skin irritation occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

Storage None

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Disposal P501 - Dispose of contents/container in accordance with local/regional/national/international regulation.

3. Composition / Information on Ingredients

Component	CAS/ Identification	Conc (%)
Sodium metasilicate	6834-92-0	1-5%
Monoethanolamine	141-43-5	1-5%
Alkyl dimethyl amine oxide	proprietary	1-5%
Ingredients not contributing to GHS classes	Proprietary	1-10%
water	7732-18-5	90%

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 required. Accessible eyewash is required.

Exposure

Swallowed Do NOT induce vomiting. Give a glass of water to drink. Contact 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. Wash contaminated clothing before reuse.

Inhaled Generally, inhalation of vapour 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: Suitable extinguishing

substances:

Unsuitable 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.

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: 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 storm water.

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. Prevent by whatever means possible any spillage from entering drains, sewers,

or water courses. (If this occurs contact your regional council immediately).

clean-up of spills, as they may create fire or environmental hazard. Collect and seal in

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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 monoethanolamine 3ppm, 7.5mg/m³ 6ppm, 15mg/m³
2-butoxyethanol 25ppm, 121mg/m³ (skin) data unavailable

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. 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 an organic

vapour cartridge with a dust/particulate 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 liquid

Odour eucalyptus odour

pH no data
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 ~1.g/ml not applicable

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Danger of explosion not explosive **Auto-ignition temperature** no data Upper & lower flammable limits no data Corrosiveness non corrosive

10. Stability & Reactivity

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 Strong acids, bases, oxidisers

Substance Specific

none known

Incompatibility

Hazardous decomposition **Hazardous reactions**

none known

products

none known

Toxicological Information

Summary

IF SWALLOWED: may irritate mouth, throat and gastrointestinal system. Nausea, stomach pain and vomiting may occur.

IF IN EYES: may cause permanent IF ON SKIN: may cause irritation.

IF INHALED: may cause respiratory irritation.

Supporting Data

Acute Oral Using LD50's for ingredients, the calculated LD50 (oral, rat) for the mixture is >2000 mg/kg.

Data considered includes: Sodium metasilicate 1280mg/kg (rat), monoethanolamine 600-

Using LD₅₀'s for ingredients, the calculated LD₅₀ (dermal, rat) for the mixture is >2000 Dermal

mg/kg. Data considered includes: Monoethanolamine 1000 mg/kg (rabbit).

Inhaled The estimated LC₅₀ (dust/mist) is >5mg/L

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

present (sodium metasilicate, monoethanol amine, Alkyl dimethyl amine oxide) at >3%

are considered eve corrosives.

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

metasilicate, monoethanol amine, Alkyl dimethyl amine oxide) present are considered

skin irritants in more concentrated form.

Chronic Sensitisation No ingredient present at concentrations > 0.1% is considered a contact or respiratory

sensitiser.

Mutagenicity No ingredient present at concentrations > 0.1% is considered a mutagen. Carcinogenicity No ingredient present at concentrations > 0.1% is considered a carcinogen. No ingredient present at concentrations > 0.1% is considered a reproductive or Reproductive /

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**

This mixture is considered harmful towards aquatic organisms.

Supporting Data

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

mg/L: Monoethanolamine 65mg/l (48hr, Daphnia magna), Alkyl dimethyl amine oxide

0.71 - 1 mg/l (96hr, Brachydanio rerio (Fish, fresh water)).

Bioaccumulation No data Degradability No data

Soil No evidence of soil toxicity.

Terrestrial vertebrate This mixture is not considered ecotoxic towards terrestrial vertebrates. See acute toxicity.

Terrestrial invertebrate No evidence of toxicity towards terrestrial invertebrates.

Biocidal no data



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 methodDisposal 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:NAProper shipping name:NAClass(es)NAPacking group:NAPrecautions:NAHazchem code:NA

IMDG

UN number: NA Proper shipping name: Not regulated

Class(es) NA Packing group: NA
Precautions: NA EmS NA

IATA

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

Key workplace requirements are:

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

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

Labelling Must comply with the Hazardous Substances (Labelling) Notice 2017.

Emergency plan Required if > 10000L is stored.

Certified handler Not required.

Tracking Not required.

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

Signage Required if > 1000L 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.

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 2020

Controls, EPA. www.epa.govt.nz

CAS Number Unique Chemical Abstracts Service Registry Number

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)

GHS Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised

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)

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

STOT RE System Target Organ Toxicity – Repeated Exposure
STOT SE System Target Organ Toxicity – Single Exposure

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 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).

Controls EPA notices, www.epa.govt.nz, Health and Safety at Work (Hazardous Substances)

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

DateReason for reviewMarch 2018Not applicable – new SDSMarch 2022Update 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 21 104 0951.

