

Identification of Substance & Company

Product

Product name SteriGuard

HSNO approval HSR002552 or HSR002528

Approval description Cosmetic Products Group Standard 2020

UN number 1170
Proper Shipping Name ETHANOL
DG class 3
Packaging group III
Hazchem code 2Y

Uses Unscented hand sanitiser gel

Company Details

Company New Zealand Medical & Scientific

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 Website
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Emergency Telephone Number: 0800-764 766

2. Hazard Identification

Approval

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002552 or HSR002528., Cosmetic Products Group Standard 2020. The substance has been classified as hazardous according to the criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

GHS 7 Classes Hazard Statements

Flammable liquid cat 3 H226 - Flammable liquid and vapour. Eye irritation cat 2 H319 - Causes serious eye irritation.

SYMBOLS

WARNING





Other Classifications

No other classifications are known to apply.

Precautionary Statements

Prevention P103 - Read label before use.

P210 - Keep away from ignition sources. No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

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





P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse Response

skin with water/shower.

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.

Storage P403+P235 - Store in a well-ventilated place. Keep cool.

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

Composition / Information on Ingredients

Component	CAS/ Identification	Concentration
Ethanol	64-17-5	60-80%
Ingredients not contributing to HSNO classes	NA	balance

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

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). IF exposed or concerned: Get medical advice/ attention.

Recommended first aid

Ready access to running water is required. Accessible eyewash is required.

facilities

Exposure

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

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Apply continuous irrigation with water for at least 15 minutes

holding eyelids apart. If eye irritation persists: Get medical advice. Skin contact

IF HANDLING SUBSTANCE IN BULK AND FOR A PROLONGED PERIOD and if a skin

irritation occurs:

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Inhaled Generally, inhalation of fumes 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: Vapours may form an explosive mixture in air which can be ignited by many sources such

as pilot lights, open flames, electrical motors, switches and static electricity.

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

substances:

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: Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat

and eye protection.

Hazchem code: 2Y

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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

tormwater.

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 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.

PrecautionsWear 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. Location test certificates must be available if storing >100 L (closed containers greater than 5 L), 250 L (closed containers up to and including 5 L), 50 L (open containers), Containers (and outer packaging) must bear the prescribed labelling, including the

Hazchem code, UN number, flammability warning and name of contents.

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 10mg/m³ for dusts and mists when limits have not otherwise been established.

NZ Workplace Ingredient WES-TWA WES-STEL
Exposure Stds Ethanol 1000ppm, 1880mg/m³ 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

GeneralPersonal Protective Equipment (PPE) should not be used as the primary means of exposure protection, except in the event of an accident or emergency situation or where

all other means of protection have proven to inadequate.

Clean PPE after use or dispose of as appropriate. Store PPE for re-use in a clean place. Regular training on the correct use of PPE should be provided. In particular the correct fitting and use of respirators and where applicable the cleaning of respirators should be undertaken.





Eyes



Avoid contact with eyes. Use safety glasses and or chemical splash goggles if splashes are possible and if handling substance in bulk.

Skin

Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves if handling substance in bulk. Impervious gloves such as nitrile or 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. Wash hands after handling in bulk.

Respiratory

A respirator when airborne concentrations approach the WES (section 8). Use a respirator with an organic vapour cartridge with a 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

Appearancesemi liquid gelOdouralcohol odourOdour Thresholdno datapH5.5-6.5Freezing/melting pointno dataBoiling Pointno data

Flashpoint 30°C (closed cup)
Flammability flammable liquid

Upper & lower flammable limits no data Vapour pressure no data Vapour density no data

Specific gravity/density 0.87-0.91 (water = 1)
Solubility soluble in water

Partition coefficient no data
Auto-ignition temperature no data
Decomposition temperature no data
Viscosity no data
Particle Characteristics no data

10. Stability & Reactivity

Stability Stable

Conditions to be avoided Flammable substance. Keep away from sources of ignition at all times. Containers should

be kept closed in order to avoid contamination.

 Incompatible groups
 strong oxidisers.

 Substance Specific
 none known

 Incompatibility
 oxides of carbon

 Hazardous decomposition
 oxides of carbon

 products

Hazardous reactions none known

11. Toxicological Information

Summary

IF SWALLOWED: Ingestion may cause gastrointestinal irritation, inebriation, drowsiness, nausea, vomiting and diarrhea. May cause central nervous system depression.

IF IN EYES: may cause eye irritation.

IF ON SKIN: prolonged skin contact may cause defatting of the skin. Sensitised individuals may experience allergic skin reactions such as dermatitis.

IF INHALED: Inhalation of high concentration of vapours may cause respiratory irritation and affect the central nervous system. Symptoms include dizziness, drowsiness, headaches and inebriation and possible loss of consciousness. CHRONIC TOXICITY: Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage.





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: ethanol >5000mg/kg, Isopropyl Myristate 25ml/kg

(guinea pig), 49700mg/kg (mouse), propylene glycol 22000mg/kg (dog), 18350mg/kg

(guinea pig), 20000mg/kg (rat).

No evidence of dermal toxicity Dermal

Inhaled No evidence of acute inhalation toxicity.

Eye The mixture is considered to be an eye irritant. Ethanol is considered an eye irritant. Skin The mixture is considered to be a mild skin irritant, some of the ingredients present in the

mixture are skin irritants at higher concentrations. Prolonged use may result in defatting of

the skin, also see sensitisation.

Chronic Sensitisation The mixture is considered to be a contact sensitizer, because benzophenone-4 present in

greater than 0.1% is known to be a contact sensitizer.

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 toxicant or have any effects on or via lactation. EPA has not classed Developmental

ethanol as a developmental toxicnt, however repeated ingestion of ethanol bypregnant

women may affect the developing foetus (foetal alcohol syndrome).

Ethanol is not classed by EPA as a 6.9 (narcotic, however ingestion and inhalation of vapours may affect the CNS). Long term exposure ethanol may result in liver damage.

None known

Aggravation of existing conditions

12. Ecological Data

Systemic

Summary

This mixture is not considered ecotoxic.

Supporting Data

No ingredient present is considered ecotoxic in the aquatic environment. Aquatic

Bioaccumulation Not bioaccumulative

Degradability No data

Soil No evidence of soil toxicity.

Terrestrial vertebrate Not considered harmful towards terrestrial vertebrates. 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 of this product must comply with the Hazardous Substances (Disposal) Notice Disposal method

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

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a hazardous substance for

transport.

UN number: 1170 Proper shipping name: **ETHANOL SOLUTION**

Class(es) Packing group: Ili Flammable liquid 2Y Precautions: Hazchem code:





IMDG

UN number: 1170 Proper shipping name: ETHANOL SOLUTION

Class(es) 3 Packing group: Ili

Precautions: Flammable liquid EmS F-E, S-D

IATA

UN number: 1170 **Proper shipping name:** ETHANOL SOLUTION

Class(es)3Packing group:IIIPrecautions:Flammable liquidERG Code3L

15. Regulatory Information

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO). Approval code: HSR002552 Cosmetic Products 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 & Tracking Not required.

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

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

Location compliance certificate Required if > 500 L (closed containers greater than 5 L), 1500 L (closed containers

up to and including 5 L), 250 L (open containers) is stored in any one location. Must be established if > 100 L (closed containers), 25 L (decanting), 5 L (open

occasionally), 1 L (open containers in continuous use) is stored in any one

location.

Fire extinguisher If > 500L present.

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

Flammable zone

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 HSR002552 Cosmetic Products Group Standard 2020, 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

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)

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

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MSDS (SDS) Material Safety Data Sheet (or Safety Data Sheet)

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

Data

Unless otherwise stated comes from the EPA HSNO chemical classification information

database (CCID) http://www.epa.govt.nz/hs/compliance/chemicals.html , for specific

chemicals.

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 2016Not applicable – new SDSOctober 2023Update, 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 7 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.



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