

Precautionary statements

: **Prevention:**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge

Response

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

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse 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. P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

Storage

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

Precautionary statement Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Substance Name

: STERLOMAX BIOACTIVE HERBAL HAND SANITIZER WITH ALOE AND VITAMIN E (CLEAR)

Chemical Name (Ingredients)

Chemical name	CAS-No.	Concentration (% v/v)
Ethyl alcohol	64-17-5	>70 - <80
Citric acid	77-92-9	>1 - <2
<i>Ocimum sanctum</i>	91845-35-1	>1 - <1.5
<i>Barbados aloes</i> (<i>Aloes barbadensis</i>)	85507-69-3	>1 - <1.5

SECTION 4: FIRST AID MEASURES

General advice

: If you feel unwell, seek medical advice (show the label where possible).

Eye/Skin Contact

: If irritation is experienced in the eyes, flush the eyes with water for 15 minutes while holding eyelids open. If symptoms persist, please seek medical attention. If irritation is experienced on the skin, flush with water, if irritation persists, please seek medical attention.

Inhalation	: If symptoms are experienced, remove the source of contamination or move the victim to fresh air. If the victim does not breathe, apply artificial respiration. If breathing is difficult, provide oxygen. Please seek medical attention.
Ingestion	: Do not induce vomiting. If there is an ingestion, seek medical attention or advice

SECTION 5: FIRE-FIGHTING MEASURES

Fire Extinguishing Agents	: Use methods appropriate for the fire. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use personal protective equipment.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

Spillage	: Eliminate all sources of ignition or flammables that may come into contact with the spillage of this product. Absorb the spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.
Personal precautions, protective equipment and emergency procedures	: Ensure adequate ventilation. Remove all sources of ignition.
Environmental precautions	: Should not be released into the environment
Methods and materials for containment and cleaning up	: Wipe up with absorbent material (e.g. cloth, fleece).

SECTION 7: HANDLING AND STORAGE

Precautions	: As a general rule, while handling keep away from heat, sparks and flame. Prevent contact with eyes. Avoid inhalation.
Storage and Advice on protection against fire and explosion	: Keep container away from sources of ignition- No smoking. Tightly closed and in a cool ventilated place. Store according to label instructions. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.
Advice on safe handling	: Keep away from heat.
Conditions for safe storage	: Store at room temperature in the original container. Avoid freezing and excessive heat above 40° c
Materials to avoid	: Keep away from food and drink

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal Protection : Avoid contact with eyes and clothing. Wear personal protective equipment. Isolate and post spill area. Keep people away from and upwind of spill/leak. Eliminate all sources of ignition and remove combustible materials.

Components with workplace control parameters

Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethyl Alcohol	STEL	1000 ppm	ACGIH
Citric acid	TWA	10mg/m ³	ACGIH
<i>Ocimum sanctum</i>	TWA /STEL	NE	NA
<i>Barbados aloes (Aloe barbadensis)</i>	TWA /STEL	NE	NA

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Viscous gel
Colour	: Clear
Odour	: Slightly alcoholic and pleasant fragrance
Boiling point/boiling range	: 76°C (168.8° F)
Flash point	: 35°C (95° F)
Vapour pressure	: No data available
Density	: 0.85 g/ml
Solubility(ies)/Water solubility	: Soluble water
Identification Ethanol (By GC)	: The retention time of the principle peak in the chromatogram of the sample solution should correspond to that of the same peak in the chromatogram of the standard solution, as obtained in the assay
Specific Gravity	: Between 0.70 g/ml and 1.20 g/ml
pH	: Between 7.0 and 9.0
Ethanol	: Not Less than 90.0% of the Labeled amount.
Citric acid	: Not Less than 90.0% of the Labeled amount as input.
<i>Ocimum sanctum</i>	: Not Less than 90.0% of the Labeled amount as input
<i>Barbados aloes (Aloe barbadensis)</i> (Claim :1.5% w/v)	: Not Less than 90.0% of the Labeled amount as input

SECTION 10: STABILITY AND REACTIVITY

Reactivity	: No decomposition occurs, if stored and applied as directed.
Chemical stability	: The product is chemically stable.
Possibility of hazardous reactions	: None reasonably foreseeable
Conditions to avoid	: Heat and Strong sunlight for prolonged periods.
Incompatible materials	: None

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Component
Ethyl alcohol 80%
 Acute oral toxicity : LD50 (rat): 7060 mg/kg

Acute inhalation toxicity : LC50 (rat): 38 mg/l/10h
 Test atmosphere: Vapour Method: Calculation method

Acute dermal toxicity : LD50 (rabbit): 15800 mg/kg (anhydrous substance). Acute Toxicity -

Acute Toxicity Component
Citric acid (CAS: 7722-84-1)
 Acute oral toxicity : LD50 Oral (Rat): 6730 mg/kg
 : Method: OECD Test Guideline 423
 : LD50 oral (mice) value: 5.4 g/kg bw
 : Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Dermal (Ras): >2000 mg/kg
 : Method: OECD Test Guideline 402

Acute Toxicity Component:
Ocimum sanctum
(CAS: 91845-35-1)

Acute oral toxicity : LD50 Oral (Rat): 27,200 mg/kg
 : Method: OECD Test Guideline 423

Acute dermal toxicity : No Acute dermal toxicity
 LD50 Dermal (Rat): >2000 mg/kg
 Method: OECD Test Guideline 402

Acute Toxicity Component:
Barbados aloes (Aloe barbadensis)
(CAS: 85507-69-3)

Acute oral toxicity : Oral LD50 (mice) >200 mg/kg, LD50 (rats) >50 mg/kg, and LD50 (dogs) >50 mg/kg
 LD50 (albino mice) 250 mg/kg

Serious eye damage/eye irritation
Components

Ethyl alcohol 80% (CAS 64-17-5) : May cause irritation and watering. High concentrations of vapours may cause irritation.

Citric acid (CAS: 7722-84-1) : No to Mild irritant

Ocimum sanctum
(CAS: 91845-35-1) : May be irritating to eyes

Barbados aloe (Aloes barbadensis): Nontoxic to eyes, only mild irritant at high concentration 125 µg/ml
(CAS: 85507-69-3) an be observed

Respiratory or skin sensitization

Components:

Ethyl alcohol 80% (CAS 64-17-5) : Irritating to the mucous membranes and respiratory tract. Risk of absorption. May cause headaches, dizziness, nausea and possible CNS effects.

Citric acid (CAS: 7722-84-1) : non-irritant to skin (OECD 404)

Ocimum sanctum (CAS: 91845-35-1) : No data available skin irritation and may cause an allergic skin reaction

Barbados alos (Alos barbadensis) (CAS: 85507-69-3) : No reactions or pathological irritation were observed

Germ cell mutagenicity

Product Components:

Ethyl alcohol 80% (CAS 64-17-5) : Not classified based on available information
 No information available

Citric acid (CAS: 7722-84-1) : No evidence of any mutagenic effects has been seen.

Ocimum sanctum (CAS: 91845-35-1) : Not specified

Barbados alos (Alos barbadensis) (CAS: 85507-69-3) : No evidence of mutagenicity with aloe extract in concentrations up to 1,000 µg/ml without S9 mix and up to 5,000 µg/ml with S9 mix.

Carcinogenicity

: Ethyl alcohol 64-17-5: Carcinogenic to humans Group I as per IARC

Citric acid: No data is available. Tulsi (Ocimum sanctum) and Aloe: No component is identified as carcinogenic

Reproductive toxicity

: May cause birth defects. Possible risk of harm to the unborn child.

No indication of maternal or foetal toxicity, no teratogenicity reported for Citric acid.

No teratogenic or foetotoxic effects were seen in rats after oral treatment with aloe extract (up to 1000 mg/kg) or aloin A (up to 200 mg/kg) (WHO, 1999)

STOT - single exposure

: Not classified based on available information.

Central nervous system (CNS) Respiratory system

STOT - repeated exposure

: Heart Liver Kidney Blood

Repeated dose toxicity

: No data available

Aspiration toxicity

: No data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Product Components

Ethyl alcohol 80% (CAS 64-17-5)

: In high concentrations: Toxic for aquatic organisms. When used properly, no impairments in the function of waste-water-treatment plants are to be expected

Toxicity to fish	: Fathead minnow (Pimephales promelas) LC50 = 14200 mg/l/96h
Toxicity to algae	: EC50 (72h) = 275 mg/l (Chlorella vulgaris)
Toxicity to microorganisms	: Fathead minnow (Pimephales promelas) LC50 = 14200 mg/l/96h Photobacterium phosphoreum:EC50 = 34634 mg/L/30 min Photobacterium phosphoreum:EC50= 35470 mg/L/5 min

Citric acid (CAS: 7722-84-1)

Toxicity to fish	: LC50 (96h) L. macrochius: 1516 mg/L
Toxicity to algae	: No data available
Toxicity to microorganisms	: No data available

**Ocimum sanctum
 (CAS: 91845-35-1)**

Toxicity to fish	: No data available
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**Barbados aloes (Aloe barbadensis)
 (CAS: 85507-69-3)**

Toxicity to fish	: No data available
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**Persistence and degradability
 Product**

Biodegradability	: Readily biodegradable.
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Mobility in soil	: No data available
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Other adverse effects	: No data available
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SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	: Dispose of as hazardous waste in compliance with local and national regulations. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
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Contaminated packaging	: Empty remaining contents. Store containers and offer for recycling of material when in accordance with the local regulations
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SECTION 14: TRANSPORT INFORMATION

International Regulation

UNRTDG

UN number	: UN 1170
Proper shipping name	: ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
Class	: 3

Packing group : III
 Labels : 3

IATA-DGR

UN/ID No. : UN 1170
 Proper shipping name : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
 Class : 3
 Packing group : III
 Labels : 3
 Packing instruction (cargo aircraft) : 366
 Packing instruction (passenger aircraft) : 355

IMDG-Code

UN number : UN 1170
 Proper shipping name : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
 Class : 3
 Packing group : III
 Labels : 3
 EmS Code : F-E, S-D

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

UN/ID/NA number : UN 1170
 Proper shipping name : ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
 Class : 3
 Packing group : III
 Labels : 3
 ERG Code : 127
 Marine pollutant : no

SECTION 15 - REGULATORY INFORMATION

US State Regulation

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

US State Regulation

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard
 Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Pennsylvania Right To Know

Ethyl alcohol	64-17-5	70 - 80 %
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New Jersey Right To Know

Ethyl alcohol	64-17-5	70 - 80 %
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California Prop 65 : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

AICS : All ingredients listed or exempt.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16: OTHER INFORMATION: NIL

Full text of other abbreviations

DIN - Standard of the German Institute for Standardization; EmS - Emergency Schedule; GLP - Good Laboratory Practice; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; IMDG - International Maritime Dangerous Goods; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; N.O.S. - Not Otherwise Specified; OECD- Organization for Economic Co-operation and Development; UN - United Nations; NOEC-No observed effect concentration; ACGIH-The American Conference of Governmental Industrial Hygienists; TWA-time-weighted average; STEL-short-term exposure limits; CAS-Chemical Abstracts Service; Kpa- Kilopascal. GHS- Globally Harmonized System.

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