



HMIS	
HEALTH	1
FLAMMABILITY	3
PHYSICAL HAZARD	0

HAZARD SEVERITY				
0	1	2	3	4
MINIMAL	SLIGHT	MODERATE	SERIOUS	SEVERE

Version 1.2

SDS Number: BP/SDS/002/20

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SAFETY DATA SHEET (SDS)

SECTION 1: PRODUCT NAME COMPANY IDENTIFICATION

Product Name : STERLOMAX E-80 ADVANCED HAND SANITIZER GEL

Manufacturer or Supplier's Details : Bioplus Healthcare Private Limited
 S.No 10-1A , Hoodi Village Krishnarajpuram Hobli,
 Bangalore- 560048,
 Ph : + 91 80 4126 7560

Emergency Telephone Number : Contact Your Regional Poison Control Center

Recommended Use of the Chemical and Restrictions on Use : Hand Sanitizer

This is for personal care and it is safe for consumers and other users under normal and reasonably foreseeable use. Consumer products, specifically defined by regulations around the world, are exempted from the requirement of an SDS (safety datasheet) for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended use guidance, please refer to the information provided on the package or instruction sheet.

SECTION 2: HAZARDS IDENTIFICATION

GHS Labelling

Flammable Liquids : Category 3

Serious Eye Damage/ Eye Irritation : Category 2B

Specific Target Organ Toxicity
 Single Exposure : Category 3

Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapour
 H320 Causes eye irritation.

H336 May cause drowsiness or dizziness.

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.

Disposal

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture

: Mixture

Substance Name

: SterloMax E-80 Advanced Hand Sanitizer Gel

Chemical Name (Ingredients)

Chemical Name	CAS-No.	Concentration (% v/v)
Ethyl alcohol	64-17-5	>70 - <80
Hydrogen Peroxide	7722-84-1	>0.110 - <0.125
Glycerol	56-81-5	> 1.30 - < 1.45

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 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 the 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 fire
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 skin, eyes and clothing. Wear personal protective equipment. 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
Hydrogen Peroxide	TWA	1 ppm or 1.4 mg/m ³	ACGIH
Glycerol	TWA	10 mg/m ³	ACGIH

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Viscous gel
Colour	: Clear
Odour	: Slightly alcoholic odour with pleasant fragrance
Boiling Point/Boiling Range	: 77° C (170.6° F)
Flash Point	: 35° C (95° F)
Vapour Pressure	: No data available
Density	: 0.87 g/ml
Solubility(ies)/Water Solubility	: Completely miscible
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 0.60 g/ml and 1.00 g/ml
pH	: Between 5 and 8
Ethanol	: Not Less than 90.0% of the Labelled amount.
Hydrogen Peroxide	: Not Less than 90.0% of the Labelled amount as input.
Glycerol	: Not Less than 90.0% of the Labelled amount as input

SECTION 10: STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical Stability	: The product is chemically stable.
Possibility of Hazardous Reactions	: None reasonably foreseeable

Conditions to Avoid : Heat, Strong sunlight for prolonged periods.

Incompatible Materials : None

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity Component : LD50 (rat): 6200mg/kg
Ethyl Alcohol 80% (CAS no. 64-17-5)
Acute Oral Toxicity

Acute Inhalation Toxicity : LC50 (rat): 124.7mg/l; 4 hours
Test atmosphere: Vapour Method: Calculation method

Acute Dermal Toxicity : LD50 (rabbit): >5,000 mg/kg

Acute Toxicity Component : LD50 Oral (Rat): > 2000 mg/kg
Hydrogen Peroxide (CAS: 7722-84-1) Method: OECD Test Guideline 423
Acute Oral Toxicity

Acute Dermal Toxicity : LD50 Dermal (Rabbits): 700 mg/kg
Method: OECD Test Guideline 423

Acute Toxicity Component:
Glycerol (CAS: 56-81-5)

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

Acute Dermal Toxicity : LD50 Dermal (Guinea Pigs): 45 ml/kg (56,750 mg/kg)

Skin Corrosion/Irritation
Product Components

Ethyl Alcohol 80% (CAS 64-17-5) : May cause irritation. Will have a degreasing action on the skin

Hydrogen Peroxide (CAS: 7722-84-1) : No skin irritation

Glycerol (CAS: 56-81-5) : Non-corrosive to skin
No skin irritation

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.

Hydrogen Peroxide (CAS: 7722-84-1) : May cause stinging pain and tearing

Glycerol (CAS: 56-81-5) : Non irritating to eyes

Respiratory or Skin Sensitization
Product 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.

Hydrogen Peroxide (CAS: 7722-84-1) : No data available

Glycerol (CAS: 56-81-5) : No data available

**Germ Cell Mutagenicity
Product Components:**

Ethyl Alcohol 80% (CAS 64-17-5)	:	No information available
Hydrogen Peroxide (CAS: 7722-84-1)	:	Hydrogen peroxide was a weak mutagen in vitro but was negative in vivo.
Glycerol (CAS: 56-81-5)	:	Genotoxicity in vitro : Test Type: in vitro assay Result : Negative

Carcinogenicity : Ethyl alcohol 64-17-5 Carcinogenic to humans Group I as per IARC IARC: (International Agency for Research on Cancer)

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

STOT - Single Exposure : May cause drowsiness or dizziness. Causes damage to organs (central nervous system, optic nerve)

STOT - Repeated Exposure : Not classified (Based on available data)

Repeated Dose Toxicity : Not classified (Based on available data)

Aspiration Toxicity : Not classified (Based on available data)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity of 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/96

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

**Hydrogen peroxide
(CAS: 7722-84-1)**

Toxicity to Fish : No data available

Toxicity to Daphnia and Other Aquatic Invertebrates : The LC50 value after 24 and 48 hours was 2.4 mg/L.

Toxicity to Algae : The reliable algae study on the marine diatom Skeletonema costatum produced a NOEC value of 0.63 mg/L.

Toxicity to Microorganisms : As per OECD guideline 209 study, the inhibitory activity of microorganisms to hydrogen peroxide exposure is EC50 value of 466 mg/L.

Glycerol (CAS: 56-81-5)

Toxicity to Fish	: No data available
Toxicity to Daphnia and Other Aquatic Invertebrates	: No data available
Toxicity to Algae	: No data available
Toxicity to Microorganisms	: No data available

Persistence and Degradability Product

Biodegradability	: Readily biodegradable.
	: Readily biodegradable. Degree of elimination: 94%
	: Persistence and degradability log P(o/w): -0.32

Bio-accumulative Potential	: Low probability of bioaccumulation (log P(o/w) <1). Further ecologic data: BOD5: 0.93 - 1.67 g/g (anhydrous substance)- COD: 1.99 g/g (anhydrous substance)- ThOD: 2.10 g/g (anhydrous substance).
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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 off 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
Lables	: 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

49 CFR

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.

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 %
Hydrogen Peroxide	7722-84-1	0.110 - 0.125 %
Glycerol	56-81-5	1.30 - 1.45 %

New Jersey Right To Know

Ethyl alcohol	64-17-5	70 - 80 %
Hydrogen Peroxide	7722-84-1	0.110 - 0.125 %
Glycerol	56-81-5	1.30 - 1.45 %

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.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.