

Version 4.4

SDS Number: BP/SDS/004/20

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## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: PRODUCT NAME COMPANY IDENTIFICATION

<b>Product Name</b>	: STERLOMAX SD PROFESSIONAL SURFACE DISINFECTANT
<b>Manufacturer or supplier's details</b>	: Bioplus Healthcare Private Limited S.No 10-1A , Hoodi Village Krishnarajpuram Hobli, Bangalore- 560048, Ph : + 91 4126 7560
<b>Emergency telephone number</b>	: Contact Your Regional Poison Control Center
<b>Recommended use of the chemical and restrictions on use</b>	: <ul style="list-style-type: none"> <li>• Road disinfectant and outdoor building use</li> <li>• Not for Hand Disinfectant use or do not use as Hand Sanitizer and Human use hygiene biocidal products.</li> </ul>

### SECTION 2: HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids	: Category 3
Serious eye damage/ eye irritation	: Not Listed
Specific target organ toxicity –Single exposure	: Not Listed
Hazard pictograms	: 
Signal word	: Warning
Hazard statements	: H226 Flammable liquid and vapour.
Precautionary statements	: <b>Prevention:</b> P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233 Keep container tightly closed. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge.  <b>Response:</b> P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  <b>Storage:</b> P403 + P235 Store in a well-ventilated place. Keep cool.  <b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture  
Substance name : SterloMax SD

Chemical Name (Ingredients) :

Chemical Name	CAS-No.	Concentration (% v/v)
Ethyl Alcohol	64-17-5	37.35 %
Purified water	7732-18-5	q.s

### SECTION 4: FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.

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 water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Use personal protective equipment.

### 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 nonflammable inert material such as clay, vermiculite or diatomaceous earth.

Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation. Remove all sources of ignition. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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 fire and explosion 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	: Keep container tightly closed in a dry and well ventilated place. Store in accordance with the particular national regulations
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.
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Components with workplace control parameters

Components	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethyl Alcohol	STEL	1000 ppm	ACGIH

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Colour	: Light green
Odour	: Slight Alcoholic
Boiling point/boiling range	: 77 °C
Flash point	: No data available
Vapour pressure	: No data available
Density	: 0.952g/cm <sup>3</sup>
Solubility(ies)/Water solubility	: Soluble
Auto-ignition temperature	: Not determined
Specific Gravity	: Between 0.70g/ml to 1.10g/ml
pH	: Between 12.6 and 12.9

Assay  
A) Ethyl Alcohol : Not Less than 90.0% of the Labeled amount  
(Claim : 37.35% v/v)

## SECTION 10: STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.  
Chemical stability : The product is chemically stable.  
Possibility of hazardous reactions : Vapours may form explosive with air.  
Conditions to avoid : Heat, flames and sparks.  
Incompatible materials : Oxidizing agents

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity Component

**Ethyl alcohol 37.35%**  
**(CAS no 64-17-5)**

Acute oral toxicity : LD50(Rat):>5,000mg/kg

Acute inhalation toxicity : LC50(Rat):124.7mg/l  
Exposure time:4h  
Test atmosphere:vapour

Acute dermal toxicity : Not Listed+

### Skin corrosion/irritation

#### Product Components

Ethyl alcohol 37.35% (CAS 64-17-5) : Not classified based on available information.

### Serious eye damage/eye irritation

#### Product Components

Ethyl alcohol 37.35% (CAS 64-17-5) : Not classified based on available information.

### Respiratory or skin sensitization

#### Product Components

Ethyl alcohol 37.35% (CAS 64-17-5) : Not classified based on available information.

### Germ cell mutagenicity

#### Product Components

Ethyl alcohol 37.35% (CAS 64-17-5) : Not classified based on available information

### Carcinogenicity

: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### Reproductive toxicity

: Not classified based on available information

### STOT - single exposure

: May caused rows inessor dizziness

### STOT - repeated exposure

: Not classified based on available information

**Repeated dose toxicity** : Not classified based on available information

**Aspiration toxicity** : Not classified based on available information

## SECTION 12: ECOLOGICAL INFORMATION

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

### Components

#### Ethyl alcohol 37.35% (CAS 64-17-5)

Toxicity to fish : (Pimephales promelas (fathead minnow)):>1,000mg/l, Exposure time:96h

Toxicity to algae : EC50 (72h) = 275 mg/l (Chlorella vulgaris)  
(Chlorella vulgaris)

Toxicity to microorganisms : EC50(Photobacterium phosphoreum):32.1mg/l

### Persistence and degradability Product

: Readily biodegradable

Biodegradability : Biodegradation:84%Exposuretime:20d

### Bio-accumulative potential

Ethyl alcohol 37.35% (CAS 64-17-5) : log Pow:-0.35

Mobility in soil : No data available

Other adverse effects : No data available

## 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.

**Contaminated packaging** : Empty remaining contents. Store containers and offer for recycling of material when in accordance with the local regulations.

## SECTION 14: TRANSPORT INFORMATION

### Labels Required

:



Marine pollutant : no  
HAZCHEM : 2Y

**Land transport (ADG)**

UN number : UN 1170  
 UN proper shipping name : ETHANOL (ETHYL ALCOHOL)  
 Packing group : II  
 Environmental hazard : Not Applicable  
 Transport hazard class(es) : Class-3  
 Sub risk-not applicable

**Air transport (ICAO-IATA / DGR)**

UN number : UN 1170  
 UN proper shipping name : ETHANOL (ETHYL ALCOHOL)  
 Packing group : II  
 Environmental hazard : Not Applicable  
 Transport hazard class (es) : ICAO/IATA Class - 3  
 ICAO / IATA Subrisk  
 ERG code - 3L

**Sea transport (IMDG-Code)**

UN number : UN 1170  
 UN proper shipping name : ETHANOL (ETHYL ALCOHOL)  
 Packing group : II  
 Transport hazard class(es) : Class 3  
 EMS code : F-E, S-D  
 Environmental hazard : Not Applicable

**SECTION 15 - REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture International Regulations

**ETHANOL (64-17-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS**

**US Federal Regulations** : SARA Section 311/312 Hazard Classes

**Australia** : Australia Exposure Standards  
 Australia Hazardous Substances Information System - Consolidated Lists  
 Australia Inventory of Chemical Substances (AICS)

**EU-Regulations** : No additional information

**Available Classification according to Regulation (EC) No. 1272/2008 [CLP] Flam. Liq. 2 H225**

**Classification according to Directive 67/548/EEC or 1999/45/EC F; R11**

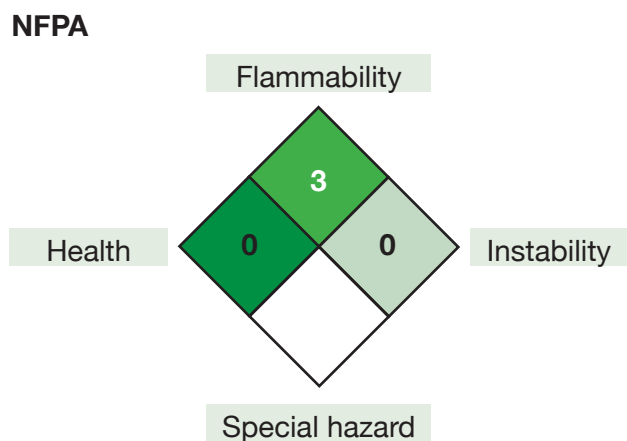
**India - Regulations** : No additional information

**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 onstruction 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; OECDOrganization 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; STELshort- term exposure limits; CAS-Chemical Abstracts Service;Kpa- Kilopascal; HMIS- Hazardous Materials Identification System.

**Further information**



**HIMS III**

<b>HEALTH</b>	<b>0</b>
<b>FLAMMABILITY</b>	<b>3</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The “\*” represents a chronic hazard, while the “/” represents the absence of a chronic hazard.

- ACGIH : USA. ACGIH Threshold Limit Values (TLV),
- ACGIH BEI : ACGIH - Biological Exposure Indices (BEI),
- ACGIH / TWA : 8-hour, time-weighted average,
- ACGIH / STEL : Short-term exposure limit

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