

1. PRODUCT AND COMPANY IDENTIFICATION

Product number : P-1000, P-500

Product name : BioMycoX® Mycoplasma Prevention Spray

Recommended use of the chemical and restrictions on use

Recommended use : For R&D use only. Not for use in pharmaceuticals, household, or other

purposes.

Manufacturer or supplier's details

Company : CellSafe Co., Ltd.

Responsible Department : #911, AceDongbaekTower 1dong, 16-4, Dongbaekjungang-ro 16beon-gil,

Giheung-gu, Yongin-si, Gyeonggi-do, 17015 Republic of Korea

E-mail address : customer@cells-safe.com

Emergency telephone number: +82-31-285-9958

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Flammable liquids (Category 3)

Serious eye damage/eye irritation (Category 1)

Specific target organ toxicity – single exposure (Category 3), Central nervous

GHS Classification

Hazard pictograms



Hazard statements

H226 : Flammable liquid and vapour.H318 : Causes serious eye damage.

H336 : May cause drowsiness or dizziness.

Precautionary statements

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

P223 : 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.
P261 : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray

P271 : Use only outdoors or in a well-ventilated area.

P280 : Wear protective gloves/ eye protection/ face protection.

Response

P303+ P361 + P353 : If in skin (or hair), Take off immediately all contaminated clothing.

Rinse skin with water/shower

P304+ P340 + P312 : If inhaled, Remove person to fresh air and keep comfortable for

breathing.

P305+ P351 + P338 + P310 : If in eyes: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P370 + P378 : In case of fire, use dry sand, dry chemical powder, or foam

extinguisher.

Storage

P403 + P233 : Store in a well-ventilated place. Keep container tightly closed.

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

P405 : Store locked up.

Disposal

P501 : Dispose of contents and container according to wastes control act.

Skin-sensitive Ingredients : Glutaral May cause allergic reactions.

Other hazards : Not Applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component Ethyl alcohol n-Propanol Glutaraldehyde CAS-No 64-17-5 71-23-8 111-30-8 EC-No 203-856-5 200-578-6 200-746-9 Weight % 15-20% 30-35% < 0.1%



4. FIRST AID MEASURES

In case of eye contact : Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If symptoms

persist, call a physician.

In case of skin contact : Take off immediately all contaminated clothing. Rinse skin with

water/shower. If symptoms persist, call a physician.

If inhaled : Remove person to fresh air and keep comfortable for breathing.

Consult a physician if necessary.

If swallowed : If accidentally swallowed obtain immediate medical attention. Do

not induce vomiting wash out mouth with water. Never give

anything by mouth to an unconscious person.

Notes to physician : No data available

5. FIREFIGHTING MEASURES

Suitable extinguishing media: Water spray. Carbon dioxide (CO2). Foam. Dry chemical.

Unsuitable extinguishing

media

: No information available

Specific hazards during

firefighting

: Mixture with combustible ingredients. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air at elevated temperatures. Development of hazardous combustion gases or vapours

possible in the event of fire.

Protective equipment and precautions for firefighters

: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions



: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

: Contain spillage, and then collect with non-combustible absorbent material and place in container for disposal according to regulations. (see section 13).

7. HANDING AND STORAGE

Precautions for safe handling

: Use personal protective equipment such as gloves, masks, and lab coats.

Conditions for safe storage, including any incompatibilities

: Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep away from sources of ignition.

Storage condition: Room temperatureSpecific end use(s): For research use only.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits : Contains no substances with occupational exposure limit values.

Ethyl alcohol

ACGIH TLV (TWA) : Not established

ACGIH TLV (STEL) : 1000ppm Korea OEL (TWA) : 1000ppm

Korea OEL (STEL) : Not established

n-Propanol

ACGIH TLV (TWA) : 100ppm

ACGIH TLV (STEL) : Not established

Korea OEL (TWA) : 200ppm Korea OEL (STEL) : 250ppm

Glutaraldehyde

ACGIH (TWA) : 0.05ppm

ACGIH OEL (STEL) : Not established

Korea OEL (TWA) : Not established

Korea OEL (STEL-C) : 0.05ppm



Exposure controls

Respiratory protection: In case of insufficient ventilation wear respirators and components

tested and approved under appropriate government standards.

Hand protection : Wear suitable gloves. Glove material: Compatible chemical-resistant

gloves.

Eye protection : Tight sealing safety goggles

Skin and Body protection: Wear suitable protective clothing.

Hygiene Measures : Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid
Odor : colorless

pH :7 (1% aqueous solution)

Melting point/range: No data availableBoiling point/range: No data available

Flash point : 26.5°C

Evaporation rate: No data availableFlammability (solid, gas): No data availableUpper explosion limit / Upper: No data available

flammability limit

Lower explosion limit / Lower : No data available

flammability limit

Vapor pressure/density: No data availableRelative density: No data availableSolubility: Soluble in waterPartition coefficient:: No data available

n-octanol/water

Viscosity: No data availableExplosive properties: No data availableOxidizing properties: No data available

Other information : No information available



10. STABILITY AND REACTIVITY

Chemical stability : Stable under recommended storage conditions.

possibility of hazardous

: Hazardous reaction has not been reported.

reactions

Conditions to avoid : No data available

Incompatible materials: No dangerous reaction known under conditions of normal use.

Hazardous decomposition : No data available

products

11. TOXICOLOGICAL INFORMATION

Principal Routes of Exposure

Acute toxicity

Ethyl alcohol

LD50 Oral : 7,060mg/kg (Rat) OECD 401

LD50 Dermal : No data available

LD50 Inhalation : 116.9mg/L 4h (Rat) OECD 403

n-Propanol

 LD50 Oral
 : 1,870mg/kg (Rat)

 LD50 Dermal
 : 4,302mg/kg (Rabbit)

 LD50 Inhalation
 : >33.8mg/L (Rat) 4h

Glutaraldehyde

LD50 Oral : 200mg/kg (Rat)

 LD50 Dermal
 : >2000mg/kg (Rabbit)

 LD50 Inhalation
 : 0.28 ~ 0.39mg/L (Rat) 4h

Skin corrosion/irritation : No data available
Serious eye : No data available

damage/irritation

Respiratory : No data available

or skin sensitization

Specific target organ : No data available

toxicity (STOT)-single



exposure

STOT-repeated exposure : No data available
Carcinogenicity : No data available
Germ cell mutagenicity : No data available
Reproductive toxicity : No data available
Aspiration hazard : No data available

12. ECOLOGOCAL INFORMATION

Ecotoxicity : Contains no substances known to be hazardous to the environment or

not degradable in waste water treatment plants.

Freshwater Fish

Ethyl alcohol : LC50 > 100mg/L 96 hr (Pimephales promelas)

n-Propanol : LC50 = 4555mg/L 96 hr (Pimephales promelas) (OECD Guideline 203)

Glutaraldehyde : LC50 = 0.8mg/L 96 hr (Oncorhynchus mykiss)

Water Flea

Ethyl alcohol : LC50 5012mg/L 48 hr (Ceriodaphnia dubia)

(other guideline: ASTM E729-80)

n-Propanol : LC50 1000mg/L 48 hr (Daphnid)

Glutaraldehyde : No data available

Freshwater Algae

Ethyl alcohol : ErC50 275mg/L 72 hr (Chlorella vulgaris) (OECD Guideline 201)

n-Propanol: No data availableGlutaraldehyde: No data availableMobility in soil: No data availablePersistence and degradability: No data availableBioaccumulative potential: No data availableOther adverse effects: No data available



13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of contents/container in accordance with local regulation.

Contaminated packaging: Empty containers should be taken to an approved waste handling site

for recycling or disposal.

Disposal precautions

: Dispose of contents and container according to wastes control act

14. TRANSPORT INFORMATION

IATA / ADR / IMDG

: regulated in the meaning of transport

UN number : ADR/RID: 1987 IMDG: 1987 IATA: 1987

UN proper shipping name : ADR/RID: Alcohol, N.O.S. (Ethyl alcohol, 1-Propanol)

: MDG: Alcohol, N.O.S. (Ethyl alcohol, 1-Propanol) : IATA: Alcohol, N.O.S. (Ethyl alcohol, 1-Propanol)

Transport hazard class(es) : ADR/RID: 3 IMDG: 3 IATA: 3

Packing group : ADR/RID: 3, IMDG: 3, IATA: 3

Environmental hazards : ADR/RID: No, IMDG Marine pollutant: No, IATA: No

Special precautions for user : Not Applicable

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

: Not Applicable

15. REGULATORY INFORMATION

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

Harmful Substances Required Permission for: Not applicable

Manufacture

Harmful Substances Prohibited from : Not applicable

Manufacturing

Harmful Agents to be kept below Occupational : 1-Propanol (CAS 71-23-8), Glutaraldehyde (CAS 111-

Exposure Limits 30-8)

Controlled Substances Subject to Environment : Not applicable



Monitoring

Controlled Substances Subject to Health : Not applicable

Examination

Hazardous substances requiring management: Not applicableSpecial Management Materials: Not applicableOccupational exposure limit substances: Not applicable

Act on the Registration and Evaluation, etc. of Chemical Substances, Chemicals Control Act

Toxic Chemicals: Not applicableRestricted Chemicals: Not applicableProhibited Chemicals: Not applicableAccident Precaution Chemicals: Not applicable

Dangerous Substances Safety Management Act

: Flammable liquids, Alcohols

Wastes Control Act

: Follow article 13 of the act to dispose the product waste

Other requirements in domestic and other countries

: Not applicable

16. OTHER INFORMATION

Further information

Material source Korea Occupational Safety and Health Agency, Korea Information System

for Chemical Management

Revision number and date

Number of Revision : 2

Revision Date : Feb. 1. 2024

ETC

: We have endeavored to compose the content of this safety data sheet as accurately as possible. Please be aware that this document is provided solely for reference purposes. The information in this document is based on current knowledge and may be applicable to the implementation of appropriate safety precautions for the product. However, we do not provide any warranty regarding the product's characteristics. It is important to note that this product is not intended for use as a drug, in households, or for any other purposes.