

# Safety data sheet

## Disinfection vial solution

Version 2.0

Effective date: 18-01-2022

Revised date: 24-05-2023



## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY / UNDERTAKING

### 1.1 Product identifier.

**Trade name:** Disinfection vial solution.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

**Product use:** The disinfection vial solution is intended for decontamination of the flow path and flow cell in the BactoBox system.

### 1.3 Details of the Supplier of the safety data sheet:

**Company:** SBT Instruments  
Symfonivej 37  
2730, Herlev  
Copenhagen, Denmark  
[www.sbtinstruments.com](http://www.sbtinstruments.com)

**Contact:** [info@sbtinstruments.com](mailto:info@sbtinstruments.com)

### 1.4 Emergency telephone number:

Use your national or local emergency number.  
United Kingdom: Contact The National Poisons Information Service (dial 111, 24 h service).

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture according to CLP No 1272/2008.

Flam. Liq. 2; H225, Eye Irrit. 2; H319.

### 2.2 Label elements according to CLP No 1272/2008:

#### Hazard pictograms:



#### Signal word:

Danger

#### Hazard statements:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

#### Precautionary statements:

General:

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### Prevention:

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

P233 Keep container tightly closed.

P280 Wear protective gloves/eye protection.

### Response:

P305 + 351 + 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

### Storage:

P403 + 235 Store in a well ventilated place. Keep cool.

### Disposal:

P501 Dispose of contents/container according to National/local waste disposal regulations.

### Additional information:

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### 2.3 Other hazards.

The product contains organic solvents. Repeated exposure to organic solvents can result in damage to the nervous system and inner organs, such as the liver and kidneys.

The product contains no PBT or vPvB substances.

This mixture does not contain substances with endocrine disrupting properties in accordance with the criteria laid down in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance:

This product is a mixture.

### 3.2 Mixture:

CAS/EC No	REACH No	Name	Content %	Classification CLP
64-17-5 / 200-578-6	01-2119457610- 43-xxxx	Ethanol*	50-70	Flam. Liq. 2; H225, Eye Irrit. 2; H319.
67-63-0 / 200-661-7	01-2119457558- 25-xxxx	Isopropanol	5-10	Flam. Liq. 2; H225, Eye Irrit. 2; H319, STOT SE 3; H336.

\*Specific concentration limits – CAS 64-17-5:

≥50 % - Eye Irrit. 2, H319.

See full text of H-phrases in section 16. Occupational limits are listed in section 8, if these are available.

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## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures.

<b>General information:</b>	Consult physician if symptoms occur.
<b>Inhalation:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms persist.
<b>Skin contact:</b>	Wash skin thoroughly with water and soap. Seek medical attention in case of discomfort.
<b>Eye contact:</b>	Rinse thoroughly with plenty of water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists get medical advice/attention
<b>Ingestion:</b>	Rinse mouth, drink 1-2 glasses of water in small sips. Seek medical attention in case of discomfort. Do not induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed:

Direct contact: Irritating to eyes. May cause tears.  
Degreases and dries the skin. Repeated exposure may cause skin dryness or cracking.  
The product emits vapours from organic solvents that might cause drowsiness and dizziness.

### 4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

## SECTION 5. FIRE FIGHTING MEASURES

**5.1 Extinguishing media:** Alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>), powder, water mist.

**Unsuitable extinguishing media:**

Water jets should not be used, since they can spread the fire.

**5.2 Special hazards arising from the substance or mixture:**

Highly flammable liquid and vapour.  
Vapours from the product are heavier than air and can spread along the floor. Vapors can form explosive mixtures with air.

**5.3 Advice for firefighters:**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

See section 8 for personal protection. Ensure sufficient ventilation. Keep away from heat, sparks, and open flame. No smoking.  
Avoid inhalation of vapours and contact with skin and eyes.

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### 6.2 Environmental precautions:

No special precautions are necessary.

### 6.3 Methods and material for containment and cleaning up:

Small spills: wipe up with absorbent material (e.g. cloth, fleece).

Large spills: Use sand, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in suitable closed container for disposal, according to local regulations. Then rinse the spillage site with plenty of water. Dispose of in accordance with section 13.

### 6.4 Reference to other sections:

See section 8 for personal protection.

See section 13 for disposal.

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

See section 8 for personal protection. Ensure good ventilation. Keep away from heat, sparks, and open flame. No smoking. Do not breathe vapours. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product.

### 7.2 Conditions for safe storage, including any incompatibilities:

Keep packages tightly closed. Store in a cool, dry, well-ventilated location. Keep out of reach for children. Store away from food, drink and animal feeding stuffs. Containers that have been opened must be carefully closed and stored upright to prevent leakage.

Store according to national regulations for flammable products.

### 7.3 Specific end use(s):

This product should only be used for applications described in section 1.2.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters - Occupational exposure limits EH-40 (Great Britain):

CAS No:	Name:	Limits 8 h:	Limits 15 min.:	Ref./comments:
64-17-5	Ethanol	1000 ppm 1920 mg/m <sup>3</sup>	- -	EH40/-
67-63-0	Isopropanol	400 ppm 999 mg/m <sup>3</sup>	500 ppm 1250 mg/m <sup>3</sup>	EH40/-

### DNEL/PNEC:

No data.

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### 8.2 Exposure controls.

#### Appropriate technical measures:

Ensure good ventilation. Airborne concentrations must be kept as low as possible, and below above exposure limits. Use for example an exhaust system if the normal air flow in the work room is not sufficient.

#### General information / Hygiene measures:

Smoking, consumption of food or liquid, and storage of tobacco, food or liquid, are not allowed in the workroom. Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face. Make sure that eyewash station is available.

#### Personal protective equipment:

Only CE-marked personal protection equipment should be used.

#### Respiratory protection:

In case of inadequate ventilation, use respiratory protection with filter A1.

#### Hand protection:

In case of repeated or prolonged contact wear protective gloves of impervious material, e.g. Butyl/Nitrile rubber. ≥120 min.  
Thickness: ≥0.30 mm.

#### Eye protection:

Wear tightly safety goggles. EN 166.

#### Body protection:

Normal work clothing.

#### Measures to avoid environmental exposure:

No special precautions necessary.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties.

Physical state:	Liquid
Colour:	Clear
Odour:	Alcohol
Melting point/freezing point:	Not relevant/no data
Boiling point:	~80°C
Flammability:	Not relevant/no data
Lower and upper explosion limit:	3.3 – 19 vol. %
Flash point:	22°C – ASTM D 3278
Auto-ignition temperature:	>350°C
Decomposition temperature:	Not relevant/no data
pH:	Not relevant/no data
Kinematic viscosity:	Not relevant/no data
Solubility:	Soluble in water and alcohol
Partition coefficient n-octanol/water:	Not relevant/no data
Vapour pressure:	Not relevant/no data
Density and/or relative density:	~0.885
Relative vapour density:	>1 – air=1
Particle characteristics:	Not relevant/no data

### 9.2 Other information:

No data.

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## SECTION 10. STABILITY AND REACTIVITY

- 10.1 Reactivity:** No dangerous reaction known under conditions of normal use.
- 10.2 Chemical stability:** Stable under recommended storage conditions.
- 10.3 Possibility of hazardous reactions:**  
None known if used and storage as recommended.  
Vapours from the product are heavier than air and can spread along the floor. Vapors can form explosive mixtures with air.
- 10.4 Conditions to avoid:** Take precautionary measures against static electricity. Do not expose to heating (for example direct sunlight) as overpressure may develop.
- 10.5 Incompatible materials:** Strong oxidizing agents.
- 10.6 Hazardous decomposition products:**  
None at recommended storage conditions and use.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008/GB CLP.

- Acute toxicity:** Not classified.
- Ethanol:  
Oral – LD50 – Rat: >2000 mg/kg  
Dermal – LD50 – Rabbit: >2000 mg/kg  
Inhalation – LC50 – Mouse: >20 mg/L/4 h.
- Isopropanol:  
Oral – LD50 – Rat: >2000 mg/kg  
Dermal – LD50 – Rabbit: >2000 mg/kg  
Inhalation – LC50 – Rat: >20 mg/L/8 h.
- Skin corrosion/irritation:** Not classified.
- Serious eye damage/irritation:** Causes serious eye irritation.
- Respiratory or skin sensitization:** Not classified.
- Germ cell mutagenicity:** Not classified.
- Carcinogenicity:** Not classified.
- Reproductive toxicity:** Not classified.
- Specific target organ toxicity - single exposure:** Not classified.

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**Specific target organ toxicity – repeated exposure:**

Not classified.

**Aspiration hazard:**

Not classified.

### 11.2 Information on other hazards:

**Endocrine disrupting properties:**

The product/substance has no endocrine disrupting properties.

**Additional information:**

Vapor in high concentrations may cause headaches, tiredness, dizziness and nausea. Repeated exposure to solvents may result in breakdown of the skin's natural fat layer. The skin will then be more exposed to absorption of harmful substances such as allergens.

## SECTION 12. ECOLOGICAL INFORMATION

**12.1 Toxicity:**

Not classified.

Ethanol:

Fish – LC50 – 48 h.: >1000 mg/L

Daphnia – EC50 – 24 h.: >100 mg/L

Algae – EC50: 5000 mg/L

Isopropanol:

Fish – LC50 – 48 h.: >100 mg/L

Daphnia – EC50 – 48 h.: >100 mg/L

Algae – EC50 – 72 h.: >100 mg/L

**12.2 Persistence and degradability:**

Product:

Readily biodegradable.

**12.3 Bioaccumulative potential:**

No potential.

**12.4 Mobility in soil:**

Soluble in water.

**12.5 Result of PBT and vPvB assessment:**

The product does not meet the criteria for PBT or vPvB.

**12.6 Endocrine disrupting properties:**

The product/substance has no endocrine disrupting properties.

**12.7 Other adverse effects:**

None known.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Empty packaging can be disposed of with household waste. Dispose in a safe manner in accordance with local/national regulations. The coding of a waste stream is based on the application of the product by the consumer. Option:

#### EWC-code:

16 03 05\* organic wastes containing dangerous substances.

18 02 05\* chemicals consisting of or containing dangerous substances.

#### Contaminated packing:

Packaging which contains leftovers from the product must be disposed of in the same way as the product. Properly cleaned container is disposed of according to packaging material.

## SECTION 14. TRANSPORT INFORMATION

This product is classified as dangerous to ADR transport.

IATA:

UN number UN1987

Proper Shipping Name: ALCOHOLS, N.O.S.

Transport hazard class(es) 3

Packing group II

Description: UN1987, ALCOHOLS, N.O.S. (Ethanol, Isopropanol), 3, II

	ADR/RID	IMDG/IMO
14.1 UN number or ID number	1987	1987
14.2 UN proper shipping name	ALCOHOLS, N.O.S. (Ethanol, Isopropanol)	ALCOHOLS, N.O.S. (Ethanol, Isopropanol)
14.3 Transport hazard class(es)	3	3
14.4 Packing group	II	II
14.5 Environmental hazards - MP	No F-E, S-D	No F-E, S-D
Other informations	LQ: 1 L. TUNNEL: D/E	LQ: 1 L. TUNNEL: D/E

### 14.6 Special precautions for user:

Not relevant.



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### 14.7 Maritime transport in bulk according to IMO instruments:

Not relevant.

## SECTION 15. REGULATORY INFORMATION

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

**Sources:** Current ADR regulations 2023. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013. Regulation (EU) 2016/425 of 9 March 2016 on personal protective equipment. Hazardous Waste (England and Wales) Regulations 2005 (as amended). EC regulation 1907/2006 (REACH) Directive 2000/532/EC. Seveso directive: 96/82/EC. EC regulation No 2020/878. CLP regulation No 1272/2008. REACH regulation 1907/2006. GB CLP.

#### Additional information:

People under the age of 18 must not be exposed to this product cf. Council Directive 94/33/EC.

### 15.2 Chemical safety assessment:

A Chemical safety assessment has not been carried out.

## SECTION 16. OTHER INFORMATION

### Full text of H-phrases as mentioned in section 3:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

#### Additional information:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

#### Revised 24-05-2023 section:

2, 3, 8, 9, 11, 12, 13, 14, 15.

#### Validated by:

SRS

[www.msds-eu.com](http://www.msds-eu.com)