

Safety data sheet

QC vial x100

Version 1.0

Effective date: 21-12-2021



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

1.1 Product identifier.

Trade name: QC vial x100.

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

Product use: Concentrated stock solution of 1 um beads for reference samples.

1.3 Details of the Supplier of the safety data sheet:

Company: SBT Instruments
Symfonivej 37
2730, Herlev
Copenhagen, Denmark
www.sbtinstruments.com

Contact: 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. 3; H226, Eye Irrit. 2; H319, STOT SE 3; H336.

2.2 Label elements according to CLP no. 1272/2008:

Hazard pictograms:



Signal word:

Warning

Contains: Isopropanol.

Hazard statements:

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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.

P262 Do not get in eyes, on skin, or on clothing.

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:

-

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 no PBT or vPvB substances.

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.

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
67-63-0 / 200-661-7	01-2119457558- 25-XXXX	Isopropanol	40	Flam. Liq. 2; H225, Eye Irrit. 2; H319, STOT SE 3; H336.
56-81-5 / 200-289-5	-	Glycerol	20-30	Not classified.

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

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:

General information:

Consult physician if symptoms occur.

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms persist.

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Skin contact: Wash skin thoroughly with water and soap. Seek medical attention in case of discomfort.

Eye contact: 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

Ingestion: 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:

Vapour 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.

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 (CO₂), 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:

Flammable liquid and vapour.
Danger of explosion if heated.

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.

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.

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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 vapors. 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.

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) 2018:

CAS-No:	Name:	Limits 8 h:	Limits 15 min.:	Ref./comments:
67-63-0	Isopropanol	400 ppm 999 mg/m ³	500 ppm 1250 mg/m ³	EH40/-
56-81-5	Glycerol, mist	10 mg/m ³	-	EH40/-

DNEL/PNEC:

No data.

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.

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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 rubber. Nitrile. ≥120 min.
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:

Appearance: Liquid	Color: Colorless	Odor: Characteristic	PH: No data	Viscosity 20°C: Not relevant
Flashpoint: >23-<60°C	Boiling point: 82.4°C*	Vapor pressure: No data	Density g/cm³: 0.785*	Melting/freezing point: -89.5°C*
Ignition temperature: -	Auto-ignition: 425°C*	Explosive limits No data	Solubility in water: Soluble*	Vapor density: No data

*Isopropanol

9.2 Other information:

No data.

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.
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:	Do not mix with other chemicals.
10.6 Hazardous decomposition products:	None at recommended storage conditions and use.

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SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity:	Not classified. Isopropanol: Oral – LD50 – Rat: 5840 mg/kg Dermal – LD50 – 16.4 mg/L Inhalation – LC50 – Rat: >10.000 ppm/6 h. Glycerol: Oral – LD50 – Rat: 27200 mg/kg Dermal – LD50 – Rabbit: >10000 mg/kg
Skin corrosion/irritation:	Not classified.
Serious eye damage/irritation:	Not classified.
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.
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.

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SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity:

Not classified.

Isopropanol:

Fish – LC50 – 96 h.: 9640 mg/L

Glycerol:

Fish – LC50 – 96 h.: 54000 mg/L

12.2 Persistence and degradability:

Isopropanol: readily biodegradable.

Glycerol: 90 % - 2 days - 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.

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:

20 01 13* Solvents.

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.

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SECTION 14. TRANSPORT INFORMATION

This product is classified as dangerous to ADR transport.

IATA:

UN number UN1993

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.

Transport hazard class(es) 3

Packing group III

Description: UN199, FLAMMABLE LIQUID, N.O.S. (Isopropanol) 3, III

	ADR/RID	IMDG/IMO
14.1 UN number	1993	1993
14.2 UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Isopropanol)	FLAMMABLE LIQUID, N.O.S. (Isopropanol)
14.3 Transport hazard class(es)	3	3
14.4 Packing group	III	III
14.5 Environmental hazards - MP	No F-E, S-E	No F-E, S-E
Other informations	LQ: 5 L. TUNNEL: D/E	LQ: 5 L. TUNNEL: D/E

14.6 Special precautions for user:

Not relevant.

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

Not relevant.

SECTION 15. REGULATORY INFORMATION

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

Sources: Pressure Equipment (Amendment) Regulations 2011. Chemicals (Hazard Information and Packaging for Supply) Regulations 2009. Control of Substances Hazardous to Health Regulations 2002 (as amended). Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995 (as amended). Personal Protective Equipment Regulations 2002. Personal Protective Equipment at Work Regulations 1992. Hazardous Waste (England and Wales) Regulations 2005(as amended). EC regulation 1907/2006 (REACH) Directive 2000/532/EC. Seveso directive: 96/82/EC. EU 2020/878. CLP 1272/2008. GB CLP:

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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.

Validated by:

SRS

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