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# Safety data sheet according to UK REACH (SI 2020/1577) as amended

Printing date 17.04.2025 Version number 3 (replaces version 2) Revision: 17.04.2025

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier

· Trade name: Ethanol Spray (70% Ethanol)

• **Product Code:** 40-1706-10

· Registration number Mixture

- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Product category PC21 Laboratory chemicals
- · Application of the substance / the mixture Laboratory chemicals
- · Uses advised against

Processes involving extreme heat use advised against.

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

Any use involving aerosol formation or vapour release in excess of the assigned Workplace Exposure Limit where workers are exposed without suitable Respiratory Protective Equipment.

Processes involving the use of incompatible substances - refer to section 10.

The product is stictly intended for industrial or professional use only.

#### · 1.3 Details of the supplier of the safety data sheet

· Supplier:

Severn Biotech Ltd.

Unit 2,

Park Lane,

Kidderminster,

Worcestershire.

DY11 6TJ

UK

Tel: 0044 1562 825286 Fax: 0044 1562 825284 email: info@severnbiotech.com

· Further information obtainable from: Product safety department.

· 1.4 Emergency telephone number:

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

## **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Classification according to GB-CLP

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

- · 2.2 Label elements
- · Labelling according to GB-CLP The product is classified and labelled according to the GB CLP regulation.
- · Hazard pictograms





· Signal word Danger



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50 - 100%

#### · Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

## · Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P280 Wear protective gloves / eye protection.

P305+P351+P338 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 CO2, powder or water spray to extinguish.

#### · 2.3 Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

## **SECTION 3: Composition/information on ingredients**

- · 3.2 Mixtures
- · **Description:** Aqueous solution of the subtance(s) listed below.

. Dangerous	components:

CAS: 64-17-5 EINECS: 200-578-6 🕸 Flam. Liq. 2, H225; 🗘 Eye Irrit. 2, H319 Index number: 603-002-00-5

Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %

Reg.nr.: 01-2119457610-43-XXXX

· Additional information: For the wording of the listed hazard phrases refer to section 16.

## **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately rinse with water.

If skin irritation continues, consult a doctor.

· After eye contact:

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

- · Information for doctor: Treat symptomatically and supportively.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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# **SECTION 5: Firefighting measures**

#### · 5.1 Extinguishing media

#### · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· For safety reasons unsuitable extinguishing agents: Water with full jet

#### · 5.2 Special hazards arising from the substance or mixture

Vapours are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur.

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Flammable. Vapours may travel to source of ignition and flash back.

#### · 5.3 Advice for firefighters

#### · Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

#### · Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Absorb gas/vapours with water spray.

## **SECTION 6: Accidental release measures**

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

Keep ignition sources away - no smoking.

Wear protective equipment. Keep unprotected persons away.

Vapours are heavier than air. They can spread along the ground and collect in confined spaces.

#### · 6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

Do not allow product to reach sewage system or any water course in the undiluted form.

Inform respective authorities in case of seepage into water course or sewage system.

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

Contain and collect spillage with non-combustible, absorbent material e.g.sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Allow to evaporate.

Wash the area with plenty of water.

Ensure adequate ventilation.

#### · 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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# **SECTION 7: Handling and storage**

#### · 7.1 Precautions for safe handling

Keep away from heat and direct sunlight.

Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted

Vapour is heavier than air. Beware of accumulation in pits and confined spaces.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Do not spray onto a naked flame or any incandescent material.

Flammable gas-air mixtures may form in empty receptacles.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- · Information about storage in one common storage facility: Store away from oxidising agents.
- · Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Store in a bunded area.

Store receptacle in a well ventilated area.

- · Storage class: 3
- · 7.3 Specific end use(s) No further relevant information available.

# **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

• ]	Ingredients with limit values that require monitoring at the workplace:
(	CAS: 64-17-5 Ethanol

WEL Long-term value: 1920 mg/m³, 1000 ppm

#### · DNELs

# CAS. 64-17-5 Ethanol

CAS: 04-	CAS: 04-17-5 Ethanoi	
Oral	Long-term systemic effects	87 mg/kg bw/day (general population)
Dermal	Long-term systemic effects	206 mg/kg bw/day (general population)
		343 mg/kg bw/day (worker)
Inhalative	Long-term systemic effects	114 mg/m³ (general population)
		380 mg/m³ (worker)
	Short-term local effects	950 mg/m³ (general population)
		1,900 mg/m³ (worker)

#### · PNECs

<b>CAS: 64-17-5 Ethanol</b>	
Freshwater	960 μg/L
Freshwater - Intermittent releases	2.75 mg/L
Marine water	790 μg/L
Sewage Treatment Plant	580 mg/L
Sediment (freshwater)	3.6 mg/kg

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Sediment (marine water)	2.9 mg/kg	
Soil	630 μg/kg	
Secondary poisoning	380 – 720 mg/kg food	

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

A safe system of work must be formulated and followed to ensure safe working with this product. Relevant workers must receive suitable and sufficient training and supervision.

Take note of assigned Workplace Exposure Limits.

Ensure that eyewash stations and safety showers are close to the workstation location.

Wash hands before breaks and at the end of work.

#### · Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A for organic vapours

#### Hand protection



Protective gloves

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### · Material of gloves

Nitrile rubber, NBR

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

## · Penetration time of glove material

Break-through time: >480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### · Eye/face protection



Safety glasses with side-shields conforming to EN166.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### · Body protection:



Flame retardant antistatic protective clothing.

Body protection must be chosen depending on product properties, activity and possible exposure.

• Environmental exposure controls Do not let product enter drains. Risk of explosion.

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• Risk management measures The operators shall be instructed adequately.

# **SECTION 9: Physical and chemical properties**

· 9.1 Information on basic physical and chemical properties

· General Information

Physical state
Colour:
Odour:
Odour:
Alcohol-like
Odour threshold:
Not determined.

• Melting point/freezing point: -48 °C • Boiling point or initial boiling point and boiling range 78 °C

· Flammability Not applicable.

· Lower and upper explosion limit

Lower: 2.5 Vol %
 Upper: 13.0 Vol %
 Flash point: 21 °C
 Auto-ignition temperature: 350 °C

Decomposition temperature: Not determined.pH Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

 $\cdot \ Solubility$ 

water: Fully miscible.
 Partition coefficient n-octanol/water (log value)
 Not determined.

• **Vapour pressure at 20 °C:** 59 hPa (CAS: 64-17-5 Ethanol)

· Vapour pressure at 50 °C: 280 hPa

· Density and/or relative density

Density at 20 °C: 0.79 g/cm³
 Relative density Not determined.
 Vapour density Not determined.

• 9.2 Other information NOTE: The physical data presented above are typical

values and should not be construed as a specification.

· Appearance:

· Form: Fluid

· Important information on protection of health and environment, and on safety.

• **Ignition temperature:** Product is not self-igniting.

• Explosive properties: Product is not explosive. However, formation of explosive

air/vapour mixtures are possible.

· Solvent content:

· **VOC** (**EC**) 70.00 %

 $\cdot \ Change \ in \ condition$ 

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

Explosives
 Flammable gases
 Aerosols
 Oxidising gases
 Not applicable
 Not applicable

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· Gases under pressure	Not applicable
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Not applicable
· Self-reactive substances and mixtures	Not applicable
· Pyrophoric liquids	Not applicable
· Pyrophoric solids	Not applicable
· Self-heating substances and mixtures	Not applicable
· Substances and mixtures, which emit flammable	gases
in contact with water	Not applicable
· Oxidising liquids	Not applicable
· Oxidising solids	Not applicable
· Organic peroxides	Not applicable
· Corrosive to metals	Not applicable
· Desensitised explosives	Not applicable

# **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

At elevated temperatures, explosive vapour/air mixtures may be formed.

· 10.3 Possibility of hazardous reactions

Forms explosive gas mixture with air.

Reacts violently with oxidising agents.

- · 10.4 Conditions to avoid Heat and static discharge.
- · 10.5 Incompatible materials: Strong acids and oxidising agents
- · 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

## **SECTION 11: Toxicological information**

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

# · LD/LC50 values relevant for classification:

# CAS: 64-17-5 Ethanol Oral LD50 > 10,000 mg/kg (rat) Dermal LD50 > 10,000 mg/kg (rabbit) Inhalative LC50/4 h > 100 mg/l (rat)

- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation

Causes serious eye irritation.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

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#### · Subacute to chronic toxicity:

Prolonged or repeated skin contact may irritate and cause dermatitis.

Nausea, dizziness, headache, blurred vision, weakness, drowsiness

Chronic ingestion may cause liver damage.

#### · Additional toxicological information:

ROUTES OF EXPOSURE: Can be absorbed into the body by inhalation and by ingestion.

EFFECTS OF SHORT-TERM EXPOSURE: The product is irritating to the eyes and the respiratory tract. May cause effects on the central nervous system.

#### · 11.2 Information on other hazards

#### · Endocrine disrupting properties

None of the ingredients are listed.

# **SECTION 12: Ecological information**

#### · 12.1 Toxicity

#### · Aquatic toxicity:

#### CAS: 64-17-5 Ethanol

EC50 (96 h) 454 mg/l (Bacteria)

#### · 12.2 Persistence and degradability biodegradable

- 12.3 Bioaccumulative potential Contains components with the potential to bioaccumulate.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

#### · Recommendation

Recommended Hierarchy of Controls:

- Minimise waste:
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

#### · Uncleaned packaging:

#### · Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Disposal must be made according to official regulations.

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Container remains hazardous when empty. Continue to observe all precautions.

Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Do not mix with other waste streams.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

# **SECTION 14: Transport information**

· 14.1 UN number or ID number · ADR/RID/ADN, IMDG, IATA	UN1170
· 14.2 UN proper shipping name · ADR/RID/ADN	UN1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)
· IMDG · IATA	ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION) ETHANOL SOLUTION

- · 14.3 Transport hazard class(es)
- · ADR/RID/ADN



· Class 3 (F1) Flammable liquids. · Label

· IMDG, IATA



3 Flammable liquids. · Class · Label

· 14.4 Packing group

Π · ADR/RID/ADN, IMDG, IATA

· 14.5 Environmental hazards:

· Marine pollutant:

Warning: Flammable liquids. · 14.6 Special precautions for user

· Hazard identification number (Kemler code):

· Hazchem Code: •2YE · EMS Number: F-E,S-D · Stowage Category Α

· 14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

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· Transport/Additional information:	
1L	
Code: E2	
Maximum net quantity per inner packaging: 30 ml	
Maximum net quantity per outer packaging: 500 ml	
2	
D/E	
1L	
Code: E2	
Maximum net quantity per inner packaging: 30 ml	
Maximum net quantity per outer packaging: 500 ml	
UN 1170 ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION), 3, II	

## **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act
- · Regulated explosives precursors

None of the ingredients are listed.

· Regulated poisons

None of the ingredients are listed.

· Reportable explosives precursors

None of the ingredients are listed.

· Reportable poisons

None of the ingredients are listed.

- · Control Of Major Accident Hazards Regulations 2015 (COMAH)
- · Named dangerous substances ANNEX I None of the ingredients are listed.
- · COMAH category P5c
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

#### · Relevant phrases

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.



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#### · Training hints

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

· Department issuing SDS: Product safety department.

#### · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

\* Data compared to the previous version altered.

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