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SAFETY DATA SHEET

Sjúkrahússpritt

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	31.03.2014
Revision date	20.04.2021

1.1. Product identifier

Product name	Sjúkrahússpritt
Article no.	1472032

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

Use of the substance / mixture	Disinfectant.
Relevant identified uses	PC8 Biocidal Products (e.g. Disinfectants, pest control)
The chemical can be used by the general public	Yes
The chemical is used by general public only	No

1.3. Details of the supplier of the safety data sheet

Company name	Tandur h.f.
Office address	Hestháls 12
Postcode	110
City	Reykjavík
Country	ICELAND
Telephone number	00354 510 1200
Email	tandur@tandur.is
Website	www.tandur.is

1.4. Emergency telephone number

Emergency telephone	Telephone number: (+354)-543-2222 Description: POISON CENTER EMERGENCY#
	Telephone number: 112 Description: POISON CENTER EMERGENCY#

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Eye Irrit. 2; H319

2.2. Label elements

Hazard pictograms (CLP)





Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour. H319 Causes serious eye irritation.

Precautionary statements

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

P233 Keep container tightly closed.

P243 Take action to prevent static discharge.

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 water mist, dry chemical, foam or carbon dioxide

to extinguish.

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

2.3. Other hazards

PBT / vPvB

This product does not contain any PBT or vPvB substances.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Ethanol	CAS No.: 64-17-5 EC No.: 200-578-6 Index No.: 603-002-00-5 REACH Reg. No.: 01-211945761	Flam. Liq. 2; H225 Eye Irrit. 2; H319	65 - 70 % vol/vol	
Propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0	Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336	5 % vol/vol	

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Call a POISON CENTER or doctor/physician if you feel unwell. Show this SDS.
Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

Skin contact

Flush skin thoroughly with water. If skin irritation occurs: Get medical advice/
attention.

Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. Remove
contact lenses, if present and easy to do. Continue rinsing. Get medical attention
immediately! Continue flushing during transport to hospital.

Rinse mouth thoroughly. Do not induce vomiting. Get immediate medical advice/
attention.

Recommended personal
protective equipment for first aid
responders

Flush skin thoroughly with water. If skin irritation occurs: Get medical advice/
attention.

See section 8.2

4.2. Most important symptoms and effects, both acute and delayed

Acute symptoms and effects	Irritation of eyes and mucous membranes, dilated pupils, respiratory irritation,	
	breathing problems. Nausea/vomiting, depression, sleepiness, dizziness. See	
	further section 11.1 under "Potential Acute Effects"	

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water mist, foam, dry powder or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Flammable liquid and vapour.
Hazardous combustion products	Not known.

5.3. Advice for firefighters

Personal protective equipment	Wear respiratory protection. Wear protective gloves / protective clothing / eye protection / face protection.
Fire fighting procedures	Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures		Stop leak if safe to do so.
Personal protection r	neasures	Wear protective clothing as described in Section 8 of this safety data sheet. Do not breathe vapour. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Provide adequate ventilation.
For emergency respo	onders	Wear protective clothing as described in Section 8 of this safety data sheet. In case of inadequate ventilation wear respiratory protection. Call a POISON CENTER or doctor/physician if you feel unwell.

6.2. Environmental precautions

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Environmental precautionary measures

Avoid release to the environment. Collect and dispose of spillage as indicated in section 13.

6.3. Methods and material for containment and cleaning up

Containment Store in a closed container.

6.4. Reference to other sections

Other instructions

See section 8 and 13 for further details.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Provide easy access to water supply and eye wash facilities. Avoid inhalation of
	vapours. Avoid smoking and use of open fire. Avoid sparks. Use spark-proof
	equipment and avoid contact with metal. Can become highly flammable in use.
	Eliminate all sources of ignition.

Protective safety measures

Preventititve measures to protect the environment	Prevent the product to reach sewage water or drainage system undiluted.Collect spillage if possible.
Advice on general occupational hygiene	Private clothes and working clothes should be kept separately.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Keep away from food, drink and animal feeding stuffs. Keep container tightly
	closed. Keep in original container. Protect from heat and direct sunlight. Store in
	a cool place.

Conditions for safe storage

Requirements for storage rooms	Keep only in original container.
and vessels	

7.3. Specific end use(s)

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Ethanol	CAS No.: 64-17-5	Limit value (8 h): 1000 ppm Limit value (8 h): 1920 mg/ m3	TWA Year: 2011
Propan-2-ol	CAS No.: 67-63-0	Limit value (8 h): 400 ppm Limit value (8 h): 999 mg/ m3 Limit value (short term) Value: 500 ppm Limit value (short term)	TWA Year: 2011

Value: 1250 mg/m3

DNEL / PNEC

Substance Ethanol **DNEL** Group: Worker Route of exposure: Long term (repeated) - Inhalation - Systemic effect **Value:** 950 mg/m3 Group: Worker Route of exposure: Long term (repeated) - Dermal - Systemic effect Value: 343 mg/kg bw/day **PNEC** Route of exposure: Water Value: 0,79 mg/l Reference: Marine water Route of exposure: Sewage treatment plant STP Value: 580 mg/l Route of exposure: Water Value: 0,96 mg/l Reference: Fresh water Substance Propan-2-ol **PNEC** Route of exposure: Water Value: 140,9 mg/l Reference: Marine water Route of exposure: Sewage treatment plant STP Value: 2251 mg/l Route of exposure: Sediment Value: 552 mg/kg Route of exposure: Soil Value: 28 mg/kg Route of exposure: Water Value: 140,9 mg/l

Reference: Freshwater

8.2. Exposure controls

Limitation of exposure on workplace

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Protective gloves and goggles are recommended. An eye wash bottle must be available at the work site.

Safety signs





Precautionary measures to prevent exposure

Instruction on measures to	Secure access of workers to safety information.
prevent exposure	
Organisational measures to	Avoid direct contact and/or splashes where possible. Train personnel.
prevent exposure	
Technical measures to prevent	Use eye protection (safety glasses or face shield) and protective gloves.
exposure	

Eye / face protection

Eye protection	Use approved safety glasses, goggles or face shield. Safety glasses should have side shields.
Suitable eye protection	Safety glasses should have side shields.
Additional eye protection	Provide easy access to water supply and eye wash facilities.
measures	
Reference to relevant standard	EN 166

Hand protection

Hand protection	Chemical resistant gloves required for prolonged or repeated contact.
Skin- / hand protection, short term contact	Nitril rubber: Penetration time: >= 30 min Material thickness: >= 0,4 mm
Skin- / hand protection, long term contact	Butylrubber: Penetration time: >= 480 min Material thickness: >= 0,7 mm
Reference to relevant standard	Chemical-resistant protective gloves (EN 374).

Skin protection

Skin protection (except hands) Wear suitable protective clothing as protection against splashing or contamination.	
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Respiratory protection

Respiratory protection	Under normal conditions of use respiration protection should not be required.
	In case of inadequate ventilation use suitable respirator.

Appropriate environmental exposure control

Environmental exposure controls	Should not reach sewage or drainage system undiluted.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Clear liquid.
Colour	Colorless.
Odour	Alcohol.
pH	Status: In delivery state Comments: No data recorded.

Melting point / melting range Comments: Not determined.

Boiling point / boiling range Comments: Not determined.

Flash point Value: ~ 13 °C

Vapour density Comments: Not determined.

Relative density Value: = 0,89 g/ml Temperature: ~ 20 °C

Solubility in water Fully miscible.

Viscosity Comments: Not determined.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Keep away from heat / sparks / open flames / hot surfaces. — No smoking. Store in a well-ventilated place. Keep cool.

10.2. Chemical stability

Stability The mixture is stable under normal storage and use conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No hazardous reactions known under normal storage and use conditions. Keep away from heat / sparks / open flames / hot surfaces. — No smoking.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Alkali metals. Strong oxidising substances.

10.6. Hazardous decomposition products

Hazardous decomposition No hazardous decomposition products.

SECTION 11: Toxicological information

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

Substance Propan-2-ol

Acute toxicity Type of toxicity: Acute

Effect tested: LD50

Route of exposure: Oral

Value: = 5050 mg/kg

Animal test species: Rat

Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: ~ 12800 mg/kg Animal test species: Rabbit

Other information regarding health hazards

Inhalation May cause respiratory irritation. May cause drowsiness or dizziness.

Skin contact Defats the skin.

Eye contact Causes serious eye irritation. Immediate first aid is necessary.

Ingestion Irritating. May be absorbed in the body and cause dizziness, nausea and vomiting. Ingestion of large amounts may cause unconsciousness.

Mutagenicity Data lacking.

Carcinogenicity, other information Data lacking.

Reproductive toxicity Data lacking.

11.2 Other information

SECTION 12: Ecological information

12.1. Toxicity

Substance	Ethanol
Aquatic toxicity, fish	Value: = 14,2 g/L Test duration: 96 h Species: Pimephales promelas Method: US EPA method E03-05
Substance	Propan-2-ol
Aquatic toxicity, fish	Value: ~ 9600 mg/l Test duration: 96 h
Substance	Ethanol
Aquatic toxicity, algae	Value: = 22,6 g/L Test duration: 9 d Species: Nostoc species Method: OECD Guideline 201
Substance	Ethanol
Aquatic toxicity, crustacean	Value: = 5012 mg/l Test duration: 48 h Species: Ceriodaphnia dubia Method: ASTM E729-80
Substance	Propan-2-ol
Aquatic toxicity, crustacean	Value: ~ 1400 mg/l Test duration: 48 h

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12.2. Persistence and degradability

Persistence and degradability, comments

No information available on mixture. However, individual substances are all classified as readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.
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12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.
Substance	Ethanol
PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.
Substance	Propan-2-ol
PBT assessment results	This substance is not classified as PBT or vPvB.
vPvB evaluation results	No data available on mixture. Contains no PBT or vPvB substances. See section 2.3

12.6. Endocrine disrupting properties

12.7. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Avoid release to the environment. Dispose of waste and residues in accordance with local authority requirements.
Relevant waste regulation	Regulation no. 737/2003
Hazardous waste product	Avoid release to the environment.
Hazardous waste packing	Avoid release to the environment.
National regulations	Regulation 184/2002 Regulation 786/1999
Other information	Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

ADR/RID/ADN	1170
IMDG	1170
ICAO/IATA	1170

14.2. UN proper shipping name

ADR/RID/ADN	ETHANOL SOLUTION
IMDG	ETHANOL SOLUTION
ICAO/IATA	ETHANOL SOLUTION

14.3. Transport hazard class(es)

ADR/RID/ADN	3
IMDG	3
ICAO/IATA	3

14.4. Packing group

ADR/RID/ADN	II
IMDG	II
ICAO/IATA	II

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Maritime transport in bulk according to IMO instruments

ADR/RID Other information

IMDG Other information

EmS	F-E, S-D
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SECTION 15: Regulatory information

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

Legislation and regulations	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and
	2000/21/EC, including amendments.

15.2. Chemical safety assessment

Chemical safety assessment	No
performed	

SECTION 16: Other information

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List of relevant H-phrases (Section 2 and 3)	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.
Abbreviations and acronyms used	CLP: Classification, labelling and packaging GHS: Globally Harmonized System. DNEL: Derived No Effect Limit (afleidd áhrifaleysismörk). PBT: Persistent, Bioaccumulative and Toxic PNEC: Predicted No Effect Concentration vPvB: Very Persistent and very Bioaccumulative REACH: Registration, Evaluation, Authorization and Restriction of Chemicals.
Information added, deleted or revised	Section 2: Outdated hazard and precautionary statements removed, since they were from the old regulation.
Version	3
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