SAFETY DATA SHEET

Handex 85 hand sanitizing gel

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	10.04.2014
Revision date	21.05.2021

1.1. Product identifier

Product name	Handex 85 hand sanitizing gel
Article no.	1840011

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

Use of the substance / mixture	Hand sanitizer
Industrial use	Yes
Professional use	Yes
Consumer use	Yes

1.3. Details of the supplier of the safety data sheet

Company name	Tandur h.f.
Office address	Hesthals 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: 112 Description: EMERGENCY# Telephone number: (+354)-543-2222 Description: POISON CENTER

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	H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.
Precautionary statements	P210 Keep away from heat / sparks / open flames / hot surfaces. – No smoking. 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	80 - 81 % vol/vol	
Isopropyl alcohol	CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0		4 - 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.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting. Get immediate medical advice/ attention.
Recommended personal protective equipment for first aid responders	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	Foam, carbon dioxide or dry powder. Water spray.

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 measures	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.
Hazardous combustion products	Not known.
For emergency responders	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

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 and vessels	Keep only in original container.

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
Isopropyl alcohol	CAS No.: 67-63-0	Country of origin: UK Limit value type: TWA Limit value (8 h) : 200 ppm **Limit value (short term)** Value: 400 ppm **Limit value (short term)** Appraisal period: 15 min on	

skin

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

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.

Precautionary measures to prevent exposure

Instruction on measures to prevent exposure	Secure access of workers to safety information.

Eye / face protection

Eye protection	Not considered necessary under ordinary use conditions.

Hand protection

Hand protection	Not applicable.

Respiratory protection

Respiratory protection	Under normal conditions of use respiration protection should not be required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Clear liquid.
Colour	Colorless.
Odour	Alcohol.

Bulk density	Value: 0.85 g/ml Temperature: 20 °C
Solubility in water	Fully miscible.

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 products	No hazardous decomposition products.

SECTION 11: Toxicological information

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

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	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

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.

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.
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

EWC waste code	EWC waste code: 160305 organic wastes containing dangerous substances

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

Hazard No.	33

IMDG Other information

EmS	F-E, S-D

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 performed	No

SECTION 16: Other information

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 2.2: H336 removed Change to section 3.2. Isopropanol added as it was not present in the previous version. Bitrex was used as denaturing agent before.
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