SAFETY DATA SHEET

Alhreinsir sótthreinsir

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	21.08.2014
Revision date	27.04.2021

1.1. Product identifier

Product name	Alhreinsir sótthreinsir
Article no.	1600012, 1600014, 1600016

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

Use of the substance / mixture	Cleaning agent. AISE-P301 - Alhliða hreinsiefni.
Not to be used in	SU21 Consumer uses: Private households (= general public = consumers)
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	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]	Eye Dam. 1; H318

2.2. Label elements

Hazard pictograms (CLP)

Signal word	Danger
Hazard statements	H318 Causes serious eye damage.
Precautionary statements	P280 Wear protective gloves / protective clothing / eye protection / face 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. P310 Immediately call a POISON CENTER or doctor / physician.

2.3. Other hazards

PBT / vPvB	Þessi vara inniheldur engin PBT eða vPvB efni.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Isotridecanolethoxylate	REACH Reg. No.: 02-2119552461-55-0000	Acute tox. 4; H302 Eye Dam. 1; H318	3 - 10 % wt/wt	
Alkyl alchohol ethoxylate	CAS No.: 68439-46-3	Eye Dam. 1; H318 Acute tox. 4; H302	1 - 3 % wt/wt	
Tetrasodium Ethylene Diamine Tetraacetate	CAS No.: 64-02-8 EC No.: 200-573-9 Index No.: 607-428-00-2	Acute tox. 4; H302 Eye Dam. 1; H318	1 - 3 % wt/wt	
Didecyldimethylammonium chloride	CAS No.: 7173-51-5 EC No.: 230-525-2 Index No.: 612-131-00-6	Acute tox. 4; H302 Skin Corr 1B; H314 Aquatic Acute 1; H400	0 - 1 % wt/wt	

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	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. Drink a few glasses of water or milk. Get immediate medical advice/attention.
Recommended personal protective equipment for first aid responders	Use personal protective equipment as required.

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

Acute symptoms and effects	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 spray, foam, dry powder or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	No unusual fire or explosion hazards noted.
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.
Hazardous combustion products	Not known.

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

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.

Protective safety measures

Preventititve measures to protect the environment	Prevent the product to reach sewage water or drainage system undiluted or unneutralized. Collect spillage if possible.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Avoid contact with skin and eyes. Keep away from food, drink and animal feeding stuffs.

Conditions for safe storage

Requirements for storage rooms and vessels	Store 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
Isotridecanolethoxylate			
Alkyl alchohol ethoxylate	CAS No.: 68439-46-3		
Tetrasodium Ethylene Diamine Tetraacetate	CAS No.: 64-02-8		
Didecyldimethylammonium chloride	CAS No.: 7173-51-5	Limit value (8 h) : 999 mg/m3 **Limit value (short term)** Value: 1250 mg/m3	

DNEL / PNEC

Substance	Tetrasodium Ethylene Diamine Tetraacetate
DNEL	**Group:** Consumer **Route of exposure:** Long term (repeated) - Oral - Systemic effect **Value:** 25 mg/kg **Group:** Worker **Route of exposure:** Short term (acute) - Inhalation - Local effect **Value:** 2,5 mg/m3 **Group:** Worker **Route of exposure:** Short term (acute) - Inhalation - Systemic effect **Value:** 2,5 mg/m3 **Group:** Consumer **Route of exposure:** Short term (acute) - Inhalation - Systemic effect **Value:** 1,5 mg/m3
PNEC	**Route of exposure:** Sewage treatment plant STP **Value:** 43 mg/l

	Route of exposure: Soil **Value:** 0,72 mg/kg

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 prevent exposure	Secure access of workers to safety information.

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.
Reference to relevant standard	EN 166

Hand protection

Hand protection	Protective gloves are recommended.

Skin protection

Skin protection (except hands)	No special precautions.

Respiratory protection

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

Appropriate environmental exposure control

Environmental exposure controls	Should not reach sewage or drainage system undiluted or unneutralized.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Clear liquid.
Colour	Yellow.
Odour	Citrus.
pH	Status: In delivery state

	Value: ~ 11 Temperature: ~ 20 °C
Relative density	Value: = 1,02 g/ml Temperature: ~ 20 °C
Solubility in water	Fully miscible.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.

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.

10.4. Conditions to avoid

Conditions to avoid	None known under normal storage and use conditions.

10.5. Incompatible materials

Materials to avoid	None in particular.

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

Substance	Isotridecanolethoxylate
Acute toxicity	**Type of toxicity:** Acute **Effect tested:** LD50 **Route of exposure:** Oral **Value:** > 2000 mg/kg **Animal test species:** Rat **Test reference:** OECD guideline 423
Substance	Tetrasodium Ethylene Diamine Tetraacetate
Acute toxicity	**Type of toxicity:** Acute **Effect tested:** LD50 **Route of exposure:** Oral **Value:** ≥ 1780 mg/kg **Animal test species:** Rat

	Test reference: Non guideline test **Type of toxicity:** Acute **Effect tested:** LC50 **Route of exposure:** Inhalation. **Duration:** 6 h **Value:** ≥ 1 mg/l **Animal test species:** Rat **Test reference:** OECD 403 (EU.B.2)
Substance	Didecyldimethylammonium chloride
Acute toxicity	**Type of toxicity:** Acute **Effect tested:** LD50 **Route of exposure:** Oral **Value:** = 645 mg/kg **Animal test species:** Rat **Test reference:** OECD 401

Other information regarding health hazards

Inhalation	Not known.
Skin contact	Irritating.
Eye contact	Risk of serious damage to eyes.
Ingestion	May irritate and cause malaise.
Mutagenicity	No information available on mixture. However, studies have not shown any indication of mutagenicity of individual substances in the mixture.
Carcinogenicity, other information	No information or data available on mixture. However, there is no evidence of carciogenicity on individual substances in the mixture.
Reproductive toxicity	No information or data available on mixture. However, studies have not shown any indication of reproductive toxicity for individual substances in the mixture.

11.2 Other information

SECTION 12: Ecological information

12.1. Toxicity

Substance	Isotridecanolethoxylate
Aquatic toxicity, fish	**Value:** ~ 10 - 100 mg/l **Test duration:** 96 h **Species:** Leuciscus idus
Substance	Tetrasodium Ethylene Diamine Tetraacetate
Aquatic toxicity, fish	**Value:** > 100 mg/l **Test duration:** 96 h **Species:** Lepomis macrochirus **Method:** OPP 72-1, static (EPA)
Substance	Didecyldimethylammonium chloride
Aquatic toxicity, fish	**Value:** ~ 0,97 mg/l

	Test duration: 96 h **Species:** Danio Rerio **Method:** OECD 203
Substance	Isotridecanolethoxylate
Aquatic toxicity, algae	**Value:** ~ 10 - 100 mg/l **Test duration:** 72 h
Substance	Tetrasodium Ethylene Diamine Tetraacetate
Aquatic toxicity, algae	**Value:** > 100 mg/l **Test duration:** 72 h **Species:** Scenedesmus obliquus **Method:** 88/302/EEC, Part C static
Substance	Didecyldimethylammonium chloride
Aquatic toxicity, algae	**Value:** ~ 0,031 mg/l **Test duration:** 72 h **Species:** Pseudokirchnerella subcapitata **Method:** OECD 201
Substance	Isotridecanolethoxylate
Aquatic toxicity, crustacean	**Value:** ~ 10 - 100 mg/l **Test duration:** 48 h
Substance	Didecyldimethylammonium chloride
Aquatic toxicity, crustacean	**Value:** ~ 0,029 mg/l **Test duration:** 48 h **Species:** Daphnia magna **Method:** OECD 202

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	No data available on bioaccumulation.
Substance	Tetrasodium Ethylene Diamine Tetraacetate
Bioconcentration factor (BCF)	**Value:** = 1,8 **Method:** Method not given

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	Isotridecanolethoxylate
PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.
Substance	Alkyl alchohol ethoxylate
PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.

Substance	Tetrasodium Ethylene Diamine Tetraacetate
PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.
Substance	Didecyldimethylammonium chloride
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

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.
EWC waste code	EWC: 200129 detergents containing dangerous substances
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

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Maritime transport in bulk according to IMO instruments

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)	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H400 Very toxic to aquatic life.
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	27.4.2021: Section 1: Title of the product changed from "Alhreinsir" to "Alhreinsir sótthreinsir"
Revision responsible	Alfred Aðalsteinsson (M.Sc. Chemistry); email: alfred@tandur.is
Version	3
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