

SAFETY DATA SHEET

Sputnik

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	24.09.2014
Revision date	16.03.2021

1.1. Product identifier

Product name	Sputnik
Article no.	1672002, 1672004, 1672008

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

Use of the substance / mixture	Cleaning agent.
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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: 112 Description: EMERGENCY# POISON CENTER Telephone number: (+354)-543-2222 Description: EMERGENCY# POISON CENTER
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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]

Skin Corr. 1B; H314

2.2. Label elements

Hazard pictograms (CLP)



Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe dust / fume / gas / mist / vapours / spray.
P264 Wash thoroughly after handling.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P363 Wash contaminated clothing before reuse.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor / physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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
3-Butoxypropan-2-ol	CAS No.: 5131-66-8	Eye Irrit. 2;H319	1 - 5 % wt/wt	
	EC No.: 225-878-4	Skin Irrit. 2;H315		
	Index No.: 603-052-00-8			
	REACH Reg. No.: 01-2119475527-28			
2-Aminoethanol	CAS No.: 141-43-5	Acute Tox. 4;H332	1 - 5 % wt/wt	
	EC No.: 205-483-3	Acute Tox. 4;H312		
	Index No.: 603-030-00-8	Acute Tox. 4;H302		
		Skin Corr. 1B;H314		

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. 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. See 8.2

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

Acute symptoms and effects	See further section 11.1 under "Potential Acute Effects"
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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.
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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.
Personal protection measures	Wear protective gloves / protective clothing / eye protection / face protection.
Hazardous combustion products	Not known.
For emergency responders	Wear protective clothing as described in Section 8 of this safety data sheet. 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.
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6.3. Methods and material for containment and cleaning up

Containment	Store in a closed container.
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6.4. Reference to other sections

Other instructions	See section 8 and 13 for further details.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Provide easy access to water supply and eye wash facilities.
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Protective safety measures

Preventitive measures to protect the environment	Prevent the product to reach sewage water or drainage system undiluted or unneutralized. 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	Avoid contact with skin and eyes. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Keep in original container. Store protected from acids.
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Conditions for safe storage

Requirements for storage rooms and vessels	Keep only in original container.
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7.3. Specific end use(s)

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
3-Butoxypropan-2-ol	CAS No.: 5131-66-8		
2-Aminoethanol	CAS No.: 141-43-5	Limit value (8 h) : 1 ppm Limit value (8 h) : 2,5 mg/m ³ Limit value (short term) Value: 3 ppm Limit value (short term) Value: 7,6 mg/m ³	TWA Year: 2011

DNEL / PNEC

Substance	3-Butoxypropan-2-ol
DNEL	Group: Consumer Route of exposure: Long term (repeated) - Dermal - Systemic effect Value: 16 mg/kg

PNEC	Group: Consumer Route of exposure: Long term (repeated) - Oral - Systemic effect Value: 8,75 mg/kg
	Group: Consumer Route of exposure: Long term (repeated) - Inhalation - Systemic effect Value: 33,8 mg/m ³
	Group: Worker Route of exposure: Long term (repeated) - Inhalation - Systemic effect Value: 270,5 mg/m ³
	Group: Worker Route of exposure: Long term (repeated) - Dermal - Systemic effect Value: 44 mg/kg
	Route of exposure: Sediment Value: 0,236 mg/kg d.w. Comments: Marine water sediment
	Route of exposure: Sewage treatment plant STP Value: 10 mg/l
	Route of exposure: Sediment Value: 2,36 mg/kg d.w. Reference: Fresh water
	Route of exposure: Water Value: 0,0525 mg/l Reference: Marine
	Route of exposure: Water Value: 0,525 mg/l Reference: Fresh water
	Route of exposure: Soil Reference: 0,16 mg/kg d.w.
Substance	2-Aminoethanol
DNEL	Group: Worker Route of exposure: Long term (repeated) - Inhalation - Local effect Value: 3,3 mg/m ³
	Group: Worker Route of exposure: Long term (repeated) - Dermal - Systemic effect Value: 1 mg/kg
	Group: Consumer Route of exposure: Long term (repeated) - Dermal - Systemic effect Value: 0,24 mg/kg
	Group: Consumer Route of exposure: Long term (repeated) - Inhalation - Systemic effect Value: 2 mg/m ³
	Group: Consumer

PNEC	Route of exposure: Long term (repeated) - Oral - Systemic effect Value: 3,75 mg/kg
	Route of exposure: Water Value: 0,0085 mg/l Reference: Sjóir
	Route of exposure: Water Value: 0,085 mg/l Reference: Freshwater
	Route of exposure: Sewage treatment plant STP Value: 100 mg/l
	Route of exposure: Soil Value: 0,035 mg/kg
	Route of exposure: Sediment Value: 0,425 mg/kg 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.
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Safety signs



Precautionary measures to prevent exposure

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

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 measures	Provide easy access to water supply and eye wash facilities.
Reference to relevant standard	EN 166

Hand protection

Hand protection	Chemical resistant gloves required for prolonged or repeated contact.
Thickness of glove material	Value: $\geq 0,4$ mm
Reference to relevant standard	Chemical-resistant protective gloves (EN 374).

Respiratory protection

Respiratory protection	Under normal conditions of use respiration protection should not be required. In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P2).
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Appropriate environmental exposure control

Environmental exposure controls	Should not reach sewage or drainage system undiluted or unneutralized.
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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: $\sim 11,8$ Temperature: ~ 20 °C
Melting point / melting range	Comments: Not determined.
Boiling point / boiling range	Comments: Not determined.
Vapour density	Comments: Not determined.
Relative density	Value: = 1,0 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	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	The mixture is stable under normal storage and use conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	No hazardous reactions known under normal storage and use conditions.
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10.4. Conditions to avoid

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

Materials to avoid	None in particular.
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10.6. Hazardous decomposition products

Hazardous decomposition products	No hazardous decomposition products.
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SECTION 11: Toxicological information

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

Substance	3-Butoxypropan-2-ol
Acute toxicity	<p>Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: > 2000 mg/kg Animal test species: Rat</p> <p>Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: = 3300 mg/kg Animal test species: Rat</p>
Substance	2-Aminoethanol
Acute toxicity	<p>Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: = 1515 mg/kg Animal test species: Rat Test reference: OECD 401</p> <p>Type of toxicity: Acute Effect tested: LC50 Route of exposure: Inhalation. Duration: 6 h Value: > 1,3 mg/l Animal test species: Rat Test reference: IRT</p> <p>Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: = 2504 mg/kg Animal test species: Rabbit Test reference: OECD 402</p>

Other information regarding health hazards

Inhalation	May cause respiratory irritation.
Skin contact	Corrosive.
Eye contact	Corrosive. Immediate first aid is necessary.
Ingestion	May have a corrosive effect on the digestive canal.
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 carcinogenicity 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	3-Butoxypropan-2-ol
Aquatic toxicity, fish	Value: ~ 560 - 1000 mg/l Test duration: 96 h
Substance	2-Aminoethanol
Aquatic toxicity, fish	Value: = 349 mg/l Test duration: 96 h Species: Cyprinus carpio
Substance	3-Butoxypropan-2-ol
Aquatic toxicity, algae	Value: > 1000 mg/l Test duration: 96 h Species: Selenastrum capricornutum
Substance	2-Aminoethanol
Aquatic toxicity, algae	Value: = 2,5 mg/l Test duration: 72 h Species: Selenastrum capricornutum
Substance	3-Butoxypropan-2-ol
Aquatic toxicity, crustacean	Value: > 1000 mg/l Test duration: 48 h Species: Daphnia magna
Substance	2-Aminoethanol
Aquatic toxicity, crustacean	Value: = 65 mg/l Test duration: 48 h Species: Daphnia magna

12.2. Persistence and degradability

Persistence and degradability, comments	No information available on mixture. However, individual substances are all classified as readily biodegradable.
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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	3-Butoxypropan-2-ol
PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.
Substance	2-Aminoethanol
PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.

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: 070601 aqueous washing liquids and mother liquors
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	2491
IMDG	2491
ICAO/IATA	2491

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

ADR/RID/ADN	8
IMDG	8
ICAO/IATA	8

14.4. Packing group

ADR/RID/ADN	III
IMDG	III
ICAO/IATA	III

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.	80
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IMDG Other information

EmS	F-A, S-B
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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.
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15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled.
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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 histograms removed
Version	3
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