

## SAFETY DATA SHEET

## TANDOL

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	05.03.2014
Revision date	20.04.2021

**1.1. Product identifier**

Product name	TANDOL
Article no.	1476015, 1476016, 1476018

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

Use of the substance / mixture	Cleaning agent.
Not to be used in	SU21 Consumer uses: Private households (= general public = consumers)
The chemical can be used by the general public	No
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	Hestháis 12
Postcode	110
City	Reykjavík
Country	ICELAND
Telephone number	00354 510 1200
Email	<a href="mailto:tandur@tandur.is">tandur@tandur.is</a>
Website	<a href="http://www.tandur.is">www.tandur.is</a>

**1.4. Emergency telephone number**

Emergency telephone	Telephone number: 112 Description: NEYÐARNÚMER
	Telephone number: 543-2222 Description: EITRUNARMÍÐSTÖÐ

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Skin Corr. 1A; H314
	Acute Tox. 1; H400
	Aquatic Chronic 2; H411

### 2.2. Label elements

#### Hazard pictograms (CLP)



Composition on the label	Sodium hypochlorite 2.5 -5 % wt/wt, N,N-dimethyltetradecylamine N-oxide 1 - 5 % wt/wt
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. EUH 031 Contact with acids liberates toxic gas.
Precautionary statements	P260 Do not breathe dust / fume / gas / mist / vapours / spray. P264 Wash hands thoroughly after handling. P273 Avoid release to the environment. 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 [or 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. P321 Specific treatment (see section 4 on this label). P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P391 Collect spillage. P405 Store locked up. P501 Dispose of contents / container to accordance with local, regional and international regulations

### 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
-----------	----------------	----------------	----------	-------

Sodium hypochlorite, solution ...% Cl active	CAS No.: 7681-52-9 EC No.: 231-668-3 Index No.: 017-011-00-1	Skin Corr. 1B;H314 Aquatic Acute 1;H400 EUH031 Note : B	2.5 -5 % wt/wt
Sodium metasilicate pentahydrate	CAS No.: 10213-79-3 EC No.: 2299129 REACH Reg. No.: 01-2119449811-37	Skin Corr. 1B; H314 Eye Dam. 1; H318 Met. Corr. 1; H290 STOT SE 3; H335	1 - 5 % wt/wt
N, N-dimethyltetradecylamine N-oxide	CAS No.: 3332-27-2 EC No.: 222-059-3 REACH Reg. No.: 01-2119949262-37-0005	Eye Dam. 1; H318 Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	1 - 5 % wt/wt
Sodium hydroxide	CAS No.: 1310-73-2 EC No.: 215-185-5 Index No.: 011-002-00-6	Skin Corr 1A; H314 Met. Corr. 1; H290	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	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. Take off contaminated clothing and wash before reuse. Get immediate 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. 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	Wear protective gloves / protective clothing / eye protection / face protection. See further section 8.2

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

Information for health personnel	ÆTANDI: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Acute symptoms and effects	May cause severe eye damage. 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.
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.
--------------------------------------	---

### 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.
----------	--

### 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	Alkalis. 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.
Conditions to avoid	Store away from acids.

## Conditions for safe storage

Technical measures and storage conditions	Alkalis.
Requirements for storage rooms and vessels	Keep only in original container.
Advice on storage compatability	Alkalis.
Additional information on storage conditions	Store away from acids.
Storage temperature	Value: ~ 20 °C

## 7.3. Specific end use(s)

# SECTION 8: Exposure controls / personal protection

## 8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Sodium hypochlorite, solution ...% Cl active	CAS No.: 7681-52-9		
Sodium metasilicate pentahydrate	CAS No.: 10213-79-3		
N,N-dimethyltetradecylamine N-oxide	CAS No.: 3332-27-2		
Sodium hydroxide	CAS No.: 1310-73-2	<b>Limit value (short term)</b> Value: 2 mg/m3	TWA Year: 2011

## DNEL / PNEC

Substance	Sodium hypochlorite, solution ...% Cl active
DNEL	<p><b>Group:</b> Consumer  <b>Route of exposure:</b> Long term (repeated) - Dermal - Local effect  <b>Value:</b> 0,5%</p> <p><b>Group:</b> Worker  <b>Route of exposure:</b> Long term (repeated) - Inhalation - Local effect  <b>Value:</b> 1,55 mg/m3</p> <p><b>Group:</b> Worker  <b>Route of exposure:</b> Long term (repeated) - Inhalation - Systemic effect  <b>Value:</b> 1,55 mg/m3</p> <p><b>Group:</b> Worker  <b>Route of exposure:</b> Short term (acute) - Inhalation - Systemic effect  <b>Value:</b> 3,1 mg/m3</p> <p><b>Group:</b> Worker  <b>Route of exposure:</b> Short term (acute) - Inhalation - Local effect  <b>Value:</b> 3,1 mg/m3</p> <p><b>Group:</b> Consumer  <b>Route of exposure:</b> Long term (repeated) - Oral - Systemic effect  <b>Value:</b> 0,26 mg/kg</p>

PNEC	<b>Group:</b> Worker <b>Route of exposure:</b> Long term (repeated) - Dermal - Local effect <b>Value:</b> 0,5%
	<b>Route of exposure:</b> Air <b>Value:</b> 0,00026 mg/m3
	<b>Route of exposure:</b> Sewage treatment plant STP <b>Value:</b> 0,03 mg/l
Substance	Sodium metasilicate pentahydrate
DNEL	<b>Group:</b> Professional <b>Route of exposure:</b> Long term (repeated) - Inhalation - Systemic effect <b>Value:</b> 6,22 mg/m3
	<b>Group:</b> Consumer <b>Route of exposure:</b> Long term (repeated) - Inhalation - Systemic effect <b>Value:</b> 1,55 mg/m3
	<b>Group:</b> Professional <b>Route of exposure:</b> Long term (repeated) - Dermal - Systemic effect <b>Value:</b> 1,49 mg/kg bw/d
PNEC	<b>Group:</b> Consumer <b>Route of exposure:</b> Long term (repeated) - Oral - Systemic effect <b>Value:</b> 0,74 mg/kg bw/d
	<b>Group:</b> Consumer <b>Route of exposure:</b> Long term (repeated) - Dermal - Systemic effect <b>Value:</b> 0,74 mg/kg bw/d
	<b>Route of exposure:</b> Sewage treatment plant STP <b>Value:</b> 1000 mg/l
Substance	<b>Route of exposure:</b> Water <b>Value:</b> 1 mg/l <b>Reference:</b> Marine water Fresh water
	<b>Route of exposure:</b> Water <b>Value:</b> 7,5 mg/l <b>Reference:</b> Fresh water Marine water
	N,N-dimethyltetradecylamine N-oxide
DNEL	<b>Group:</b> Consumer <b>Route of exposure:</b> Long term (repeated) - Inhalation - Systemic effect <b>Value:</b> 1,53 mg/m3
	<b>Group:</b> Professional <b>Route of exposure:</b> Long term (repeated) - Dermal - Systemic effect <b>Value:</b> 11 mg/kg/day
	<b>Group:</b> Professional <b>Route of exposure:</b> Long term (repeated) - Inhalation - Systemic effect <b>Value:</b> 6,2 mg/m3

Substance DNEL	<b>Group:</b> Consumer <b>Route of exposure:</b> Long term (repeated) - Oral - Systemic effect <b>Value:</b> 0,44 mg/kg/day
	<b>Group:</b> Consumer <b>Route of exposure:</b> Long term (repeated) - Dermal - Systemic effect <b>Value:</b> 5,5 mg/kg/day
	Sodium hydroxide
	<b>Group:</b> Worker <b>Route of exposure:</b> Long term (repeated) - Inhalation - Local effect <b>Value:</b> 1 mg/m <sup>3</sup>
	<b>Group:</b> Consumer <b>Route of exposure:</b> Long term (repeated) - Inhalation - Local effect <b>Value:</b> 1 mg/m <sup>3</sup>
	<b>Group:</b> Consumer <b>Route of exposure:</b> Short term (acute) - Dermal - Local effect <b>Value:</b> 2%
	<b>Group:</b> Worker <b>Route of exposure:</b> Short term (acute) - Dermal - Local effect <b>Value:</b> 2%

## 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.

Organisational measures to prevent exposure

Avoid direct contact and/or splashes where possible. Train personnel.

Technical measures to prevent exposure

Where possible: use through foam systems and cover open containers. Use safety glasses/goggles and protective clothing.

## 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.
Skin- / hand protection, short term contact	Nitril rubber: Penetration time: $\geq 30$ min Material thickness: $\geq 0,4$ mm
Skin- / hand protection, long term contact	Butylrubber: Penetration time: $\geq 480$ min Material thickness: $\geq 0,7$ mm
Suitable gloves type	Butyl rubber. Nitrile. Chloroprene rubber. Polyvinyl chloride (PVC). Rubber (natural, latex).
Thickness of glove material	Value: $\geq 0,4$ 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.
--------------------------------	---

## 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).
------------------------	---

## 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	Pale yellow
Odour	Chlorine.
pH	Status: In delivery state Value: $> 12,5$ Temperature: $\sim 20$ °C
Melting point / melting range	Comments: Not determined.
Boiling point / boiling range	Comments: Not determined.
Flash point	Comments: Not relevant.
Evaporation rate	Comments: Not determined.
Vapour pressure	Comments: Not determined.
Vapour density	Comments: Not determined.



Relative density	Value: = 1,05 g/ml Temperature: ~ 20 °C
Solubility in water	Fully miscible.
Decomposition temperature	Comments: Not determined.
Viscosity	Comments: Not determined.

## 9.2. Other information

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

Reactivity	Reactivity issues of concern are mainly due to sodium hydroxide and sodium hypochlorite which are present in the mixture. Both are corrosive. Sodium hypochlorite will react with acids to release toxic chlorine gas. These effects become less and less significant as the mixture is diluted with water. If the mixture is stored and used as recommended there should be no danger due to its reactivity.
------------	--

## 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	May attack light-alloy metals and liberate hydrogen gas. Generates very toxic gas in contact with acid.
---------------------	--

## 10.5. Incompatible materials

Materials to avoid	Reacts with acids releasing toxic chlorine gas. Will corrode copper, zinc, aluminium and their alloys.
--------------------	---

## 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	Sodium hypochlorite, solution ...% Cl active
Acute toxicity	<b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD50 <b>Route of exposure:</b> Oral <b>Value:</b> > 1100 mg/kg <b>Animal test species:</b> Rat

		<b>Test reference:</b> OECD 401  <b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD50 <b>Route of exposure:</b> Dermal <b>Value:</b> > 20000 mg/kg <b>Animal test species:</b> Rabbits <b>Test reference:</b> OECD 402  <b>Type of toxicity:</b> Acute <b>Effect tested:</b> LC50 <b>Route of exposure:</b> Inhalation. <b>Value:</b> > 10,5 mg/l <b>Animal test species:</b> Rat <b>Test reference:</b> OECD 403
		Sodium metasilicate pentahydrate
Substance	Acute toxicity	<b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD50 <b>Route of exposure:</b> Oral <b>Value:</b> ~ 1152-1349 mg/kg bw <b>Animal test species:</b> Rat  <b>Type of toxicity:</b> Acute <b>Effect tested:</b> LC50 <b>Route of exposure:</b> Inhalation. <b>Value:</b> > 2,06 g/m3  <b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD50 <b>Route of exposure:</b> Dermal <b>Value:</b> > 5000 mg/kg bw
		N,N-dimethyltetradecylamine N-oxide
Substance	Acute toxicity	<b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD50 <b>Route of exposure:</b> Oral <b>Value:</b> = 1495 mg/kg <b>Animal test species:</b> Rat Rat  <b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD50 <b>Route of exposure:</b> Dermal <b>Duration:</b> 24 h <b>Value:</b> > 2000 mg/kg <b>Animal test species:</b> Rat <b>Test reference:</b> OECD 402
		Sodium hydroxide
Substance	Acute toxicity	<b>Type of toxicity:</b> Acute <b>Effect tested:</b> LD50 <b>Route of exposure:</b> Oral <b>Value:</b> = 1350 mg/kg <b>Animal test species:</b> Rat <b>Test reference:</b> Method not given

**Type of toxicity:** Acute  
**Effect tested:** LD50  
**Route of exposure:** Dermal  
**Value:** = 1350 mg/kg  
**Animal test species:** Rabbit  
**Test reference:** Method not given

**Type of toxicity:** Acute  
**Effect tested:** LC50  
**Route of exposure:** Inhalation.  
**Value:** = 4800 mg/l  
**Animal test species:** Mouse  
**Test reference:** Method not given

## Other information regarding health hazards

Inhalation	May cause bronchospasm in chlorine sensitive individuals. Severe irritant, may cause respiratory tract irritation.
Skin contact	Highly Irritating.
Eye contact	Highly Corrosive. Risk of serious damage to eyes. Immediate first aid is necessary.
Ingestion	Corrosive. May cause burns in mucous membranes, throat, oesophagus and stomach.
Mutagenicity	Engar upplýsingar til um blöndu. Varðandi einstök efni í blöndunni þá eru engar vísbendingar um stökkbreytandi áhrif.
Carcinogenicity, other information	Engar upplýsingar til um blöndu. Varðandi einstök efni í blöndunni þá eru engar vísbendingar um krabbameinsvaldandi áhrif.
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

Comments	Sjá 4.1
----------	---------

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	Sodium hypochlorite, solution ...% Cl active
Aquatic toxicity, fish	<b>Value:</b> = 0,06 mg/l <b>Test duration:</b> 96 h <b>Species:</b> Rainbow trout <b>Method:</b> Not given
Substance	Sodium metasilicate pentahydrate
Aquatic toxicity, fish	<b>Value:</b> = 210 mg/l <b>Test duration:</b> 96 h <b>Species:</b> Brachydanio rerio
Substance	N,N-dimethyltetradecylamine N-oxide

Aquatic toxicity, fish	<b>Value:</b> = 2,4 mg/l <b>Test duration:</b> 96 h <b>Method:</b> CL50
Substance	Sodium hydroxide
Aquatic toxicity, fish	<b>Value:</b> = 196 mg/l <b>Test duration:</b> 96 h <b>Species:</b> Various species
Substance	Sodium hypochlorite, solution ...% Cl active
Aquatic toxicity, algae	<b>Value:</b> = 0,0021 mg/l <b>Test duration:</b> 168 h <b>Species:</b> Not specified <b>Method:</b> Not given
Substance	N,N-dimethyltetradecylamine N-oxide
Aquatic toxicity, algae	<b>Value:</b> = 0,19 mg/l <b>Method:</b> CE50
Substance	Sodium hydroxide
Aquatic toxicity, algae	<b>Value:</b> = 22 mg/l <b>Test duration:</b> 0,25 h <b>Species:</b> Photobacterium phsophoreum <b>Method:</b> Method not given
Substance	Sodium hypochlorite, solution ...% Cl active
Aquatic toxicity, crustacean	<b>Value:</b> = 0,141 mg/l <b>Test duration:</b> 48 h <b>Species:</b> Daphnia magna <b>Method:</b> OECD 202
Substance	Sodium metasilicate pentahydrate
Aquatic toxicity, crustacean	<b>Value:</b> = 1700 mg/l <b>Test duration:</b> 48 h <b>Species:</b> Daphnia magna
Substance	N,N-dimethyltetradecylamine N-oxide
Aquatic toxicity, crustacean	<b>Value:</b> = 2,64 mg/l <b>Method:</b> CE50
Substance	Sodium hydroxide
Aquatic toxicity, crustacean	<b>Value:</b> = 40,4 mg/l <b>Test duration:</b> 48 h

## 12.2. Persistence and degradability

Substance	Sodium hypochlorite, solution ...% Cl active
Biodegradability	<b>Comments:</b> Not relevant.
Persistence and degradability, comments	Biodegradability of the inorganic materials present in the mixture is not relevant. The other substances present in the mixture are classified as readily biodegradable.

### 12.3. Bioaccumulative potential

#### Bioaccumulative potential

Engar upplýsingar til um blöndu. Varðandi einstök efni í blöndunni þá eru engar vísbendingar um uppsöfnunarhættu í lífverum.

### 12.4. Mobility in soil

### 12.5. Results of PBT and vPvB assessment

#### PBT assessment results

This substance is not classified as PBT or vPvB.

#### Substance

Sodium hypochlorite, solution ...% Cl active

#### PBT assessment results

This substance is not classified as PBT or vPvB.

#### Substance

Sodium metasilicate pentahydrate

#### PBT assessment results

Not Classified as PBT/vPvB by current EU criteria.

#### Substance

N,N-dimethyltetradecylamine N-oxide

#### PBT assessment results

Not Classified as PBT/vPvB by current EU criteria.

#### vPvB evaluation results

Þessi vara inniheldur engin PBT eða vPvB efni.

### 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.

#### Product classified as hazardous waste

Yes

#### Packaging classified as hazardous waste

Yes

#### EWC waste code

EWC: 060204 natríum og kalíum hýdroxíð  
EWC: 070601 vatnsblandaðar þvottalausnir og stofnlausnir

#### National regulations

Reglugerð 184/2002 um skrá yfir spilliefni og annan úrgang.  
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

1719

IMDG	1719
ICAO/IATA	1719

## 14.2. UN proper shipping name

ADR/RID/ADN	CAUSTIC ALKALI LIQUID, N.O.S.
IMDG	CAUSTIC ALKALI LIQUID, N.O.S.
ICAO/IATA	CAUSTIC ALKALI LIQUID, N.O.S.

## 14.3. Transport hazard class(es)

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

## 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.	80
------------	----

### IMDG Other information

EmS	F-A, S-B
-----	----------

## SECTION 15: Regulatory information

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

Legislation and regulations	<p>This safety datasheet is in compliance with the following EU legislation and its adaptations - as far as applicable:</p> <p>Regulation 1907/2006 and later 750/2008 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Amendments on Annex II of the REACH regulation with EU regulation 453/2010.</p> <p>Regulation (EC) No. 1272/2008 on classification, labelling and packaging of substances and mixtures which replaces EU legislations 67/548/EEC of 1999/45/EEC and changes regulation No. 1907/2006.</p>
-----------------------------	---

### 15.2. Chemical safety assessment

Chemical safety assessment performed	No
--------------------------------------	----

## SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	<p>H290 May be corrosive to metals.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H318 Causes serious eye damage.</p> <p>H335 May cause respiratory irritation.</p> <p>H400 Very toxic to aquatic life.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>
Abbreviations and acronyms used	<p>CLP: Classification, labelling and packaging</p> <p>GHS: Globally Harmonized System.</p> <p>DNEL: Derived No Effect Limit (afleidd áhrifaleysismörk).</p> <p>PBT: Persistent, Bioaccumulative and Toxic</p> <p>PNEC: Predicted No Effect Concentration</p> <p>vPvB: Very Persistent and very Bioaccumulative</p> <p>REACH: Registration, Evaluation, Authorization and Restriction of Chemicals.</p>
Information added, deleted or revised	<p>20.04.2021:</p> <p>Section 2: Hazard statement added along with applicable precautionary statements. Outdated statements from old regulation were also removed.</p> <p>23.11.2021:</p> <p>Section 3: Ingredient list updated. Did not affect the hazard statements.</p> <p>Section 15.1: Changed from Icelandic to English.</p>
Revision responsible	Alfred Aðalsteinsson (M.Sc. Chemistry); email: alfred@tandur.is
Last update date	20.04.2021
Version	4
Prepared by	Birgir Ö. Gudmundsson (Ph.D Chemistry); email: birgir@tandur.is