SAFETY DATA SHEET

CAUSTIC SODA 30%

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	24.02.2014
Revision date	29.09.2022

1.1. Product identifier

Product name	CAUSTIC SODA 30%
Article no.	1484016, 1484018, 1484019

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

Use of the substance / mixture	Cleaning agent.
Uses advised against	Uses other than those identified are not recommended.
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	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: (+354)-543-2222 Description: POISON CENTER Telephone number: 112 Description: EMERGENCY#

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 Met. Corr. 1; H290

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label	Sodium hydroxide = 15 - 30 % wt/wt
Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage. H290 May be corrosive to metals.
Precautionary statements	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. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor / physician.

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
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	= 15 - 30 % wt/wt	

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Show this sheet or relavant SDS to the doctor in attendance.
Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.
Skin contact	Flush skin thoroughly with water. Take off contaminated clothing and wash before reuse. 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 immediate medical advice/attention. Continue flushing during transport to hospital.
Ingestion	Rinse mouth thoroughly. Drink a few glasses of water or milk. Immediately call a POISON CENTER or doctor/physician.
Recommended personal protective equipment for first aid responders	Wear protective gloves / protective clothing / eye protection / face protection.

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

Information for health personnel	CORROSIVE PRODUCT: Contains CAUSTIC SODA IF IN EYES: Remember to remove lenses if they are present. Ask patient. Continue eye rinsing/treatment. Call an eye specialist in all cases.
Acute symptoms and effects	Causes severe skin burns and 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	Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water or alcohol-resistant foam.

5.2. Special hazards arising from the substance or mixture

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

Personal protection measures	Wear protective gloves / protective clothing / eye protection / face protection. Call a POISON CENTER or doctor/physician if you feel unwell.
Hazardous combustion products	Not relevant.
For emergency responders	Wear protective gloves / protective clothing / eye protection / face 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 spillage.

6.3. Methods and material for containment and cleaning up

Cleaning method	Collect spillage.
Containment	Store in a closed container.

6.4. Reference to other sections

Other instructions	See 8.2

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Alkalis. First-aid equipment, including eye wash bottle, must be available at the work site.

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.
Advice on general occupational hygiene	Private clothes and working clothes should be kept separately.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Corrosive storage. Keep in original container. Store protected from acids. Keep container tightly closed. Keep away from food, drink and animal feeding stuffs.

Conditions for safe storage

Technical measures and storage conditions	Alkalis.
Advice on storage compatability	Alkalis.
Storage temperature	Value: ~ 20 °C

7.3. Specific end use(s)

Specific use(s)	See 1.2

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Sodium hydroxide	CAS No.: 1310-73-2	**Limit value (short term)** Value: 2 mg/m3	TWA Year: 2011

DNEL / PNEC

Substance	Sodium hydroxide
DNEL	**Group:** Worker **Route of exposure:** Long term (repeated) - Inhalation - Local effect **Value:** 1 mg/m3 **Group:** Consumer

	Route of exposure: Long term (repeated) - Inhalation - Local effect **Value:** 1 mg/m3 **Group:** Consumer **Route of exposure:** Short term (acute) - Dermal - Local effect **Value:** 2% **Group:** Worker **Route of exposure:** Short term (acute) - Dermal - Local effect **Value:** 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.

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 only through automatic dosing systems. Use safety glasses/goggles and protective clothing.

Eye / face protection

Eye protection	Use approved safety 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	Wear protective gloves.
Skin- / hand protection, short term contact	Butylrubber: Penetration time: >= 480 min Material thickness: >= 0,7 mm
Suitable gloves type	Butylrubber (prolonged contact) Nitrilrubber (protection against splashes) Chloroprene rubber. Polyvinyl chloride (PVC). Rubber (natural, latex).
Thickness of glove material	Value: >= 0,4 mm

Reference to relevant standard	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).
Tasks needing respiratory protection	Not determined.

Appropriate environmental exposure control

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

Appropriate environmental exposure control

Exposure controls and personal protection, additional information	To be used only in closed systems (CIP).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Colourless liquid.
Colour	Colourless.
Odour	No characteristic odour.
pH	Status: In delivery state Value: > 12,5
Freezing point	Value: < 0 °C Comments: Note determined.
Bulk density	Value: = 1,33 g/ml Temperature: ~ 20 °C
Solubility in water	Soluble in all proportions.
Oxidising properties	None.

9.2. Other information

Physical hazards

Metal corrosion	Corrosive to light metals including aluminium.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Reactivity issues of concern are mainly due to the caustic soda content of the mixture. Caustic soda is a highly reactive substance. It is corrosive on live tissue. It corrodes light metals such as aluminium, releasing hydrogen gas as a byproduct. It may also damage certain types of surface material such as some different floor types. These effects of caustic soda 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. The solution is strongly alkaline and reacts with strong acids with heat generation.

10.5. Incompatible materials

Materials to avoid	Acid reactive. 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 hydroxide
Acute toxicity	**Type of toxicity:** Acute **Effect tested:** LD50 **Route of exposure:** Oral **Value:** = 1350 mg/kg **Animal test species:** Rat **Test reference:** 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

General	This substance is corrosive.
Inhalation	Highly Corrosive. Serious damage to the lining of nose, throat and lungs.
Skin contact	Causes severe burns.
Eye contact	Highly Corrosive. Risk of serious damage to eyes. Immediate first aid is necessary.
Ingestion	Corrosive. Even small amounts may cause serious damage.

11.2 Other information

Comments	See 4.1

SECTION 12: Ecological information

12.1. Toxicity

Substance	Sodium hydroxide
Aquatic toxicity, fish	**Value:** = 196 mg/l **Test duration:** 96 h **Species:** Various species
Substance	Sodium hydroxide
Aquatic toxicity, algae	**Value:** = 22 mg/l **Test duration:** 0,25 h **Species:** Photobacterium phsophoreum **Method:** Method not given
Substance	Sodium hydroxide
Aquatic toxicity, crustacean	**Value:** = 40,4 mg/l **Test duration:** 48 h

12.2. Persistence and degradability

Persistence and degradability, comments	The product contains caustic soda which is an inorganic water soluble salt. Biodegradability is therefore not relavant.

12.3. Bioaccumulative potential

Bioaccumulative potential	No data recorded.

12.4. Mobility in soil

Mobility	Not regarded as dangerous for the environment. However, the product is highly alkaline and may affect local environment due to high pH value. Upon dilution, alkalinity/pH value drops rapidly and effects decrease accordingly.

12.5. Results of PBT and vPvB assessment

PBT assessment results	This product does not contain any PBT or vPvB substances.

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	Reglugerð 737/2003
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 sodium and potassium hydroxide
National regulations	Regulation 184/2002
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	1824
IMDG	1824
ICAO/IATA	1824

14.2. UN proper shipping name

ADR/RID/ADN	SODIUM HYDROXIDE SOLUTION
IMDG	SODIUM HYDROXIDE SOLUTION
ICAO/IATA	SODIUM HYDROXIDE SOLUTION

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	This safety datasheet is in compliance with the following EU legislation and its adaptations - as far as applicable: 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. Regulation (EC) No. 1272/2008 on classificatioin, labelling and packaging of substances and mixtures which replaces EU legislations 67/548/EBE og 1999/45/EB and changes regulation No. 1907/2006.

15.2. Chemical safety assessment

Chemical safety assessment performed	No

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.
Abbreviations and acronyms used	GHS: Globally Harmonized System CLP: Classification, labelling and packaging 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 1: Article numbers updated.
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Last update date	26.10.2016

Version	3
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