

CAUSTIC SODA PEARL, POLISH

Date 30.9.2011

Previous date: 14.3.2008

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier****1.1.1 Commercial Product Name**

CAUSTIC SODA PEARL, POLISH

1.1.2 Product code

CAUSTSO-ANWIL-SB, CAUSTSO-ANWIL-BB

REACH Registration Number

01-2119457892-27-0025

1.1.3

Chemical identity: Sosium hydroxide

1.2 Relevant identified uses of the substance or mixture and uses advised against**1.2.1 Recommended use**

Industrial use, Raw material, Detergent, Laboratory chemicals

1.3 Details of the supplier of the safety data sheet**1.3.1 Supplier**

Algol Chemicals Oy

Street address

Karapellontie 6

Postcode and post office

FIN-02611 Espoo

Finland

P.O.Box

P.O.Box 13

Postcode and post office

FIN-02611 Espoo

Finland

Telephone

+358 9 509 91

Telefax

+358 9 595 006

Business ID

0777485-0

Email

msds@algol.com

1.3.3 Identification of the foreign producer

CIECH S.A.

P.O. Box 271

00-950 Warszawa Jasna 12 Pologne

Poland

1.4 Emergency telephone number**Telephone number, name and address**

Poison Information Centre, Tukholmankatu 17, P.O.Box 790, FI-00029 HUS Helsinki), Finland tel. (24 h) / 09-4711 (exchange), 09-471977 (direct)

SECTION 2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

This substance has been registered according to Regulation (EC) No. 1907/2006 (REACH).

1272/2008 (CLP)

Skin Corr. 1A, H314

Met. Corr. 1, H290

67/548/EEC - 1999/45/EC

C; R35

2.2 Label elements**1272/2008 (CLP)**

GHS05

Signal word

Danger**Hazard Statements**

H314

Causes severe skin burns and eye damage.

H290

May be corrosive to metals.



CAUSTIC SODA PEARL, POLISH

Date 30.9.2011

Previous date: 14.3.2008

Precautionary Statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.
P310 Immediately call a POISON CENTER or doctor/physician.
P501 Dispose of contents/container as a hazardous waste in accordance with local regulations.

2.3 Other hazards**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

This substance is classified as dangerous according to European Union legislation.

CAS/ REACH	EINECS	Chemical name of the substance	Concentration	
1310-73-2	215-185-5	Sodium hydroxide	> 98.5 %	C; R35 Skin Corr. 1A, H314; Met.Corr. 1, H290

Other information

Molecular formula: NaOH

SECTION 4. FIRST AID MEASURES**4.1 Description of first aid measures**

When symptoms persist or in all cases of doubt seek medical advice.

4.1.2 Inhalation

Move to fresh air. Keep patient warm and at rest. In case of shortness of breath, give oxygen. Call a physician.

4.1.3 Skin contact

Take off all contaminated clothing immediately. Wash off immediately with plenty of water. Get medical attention.

4.1.4 Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

4.1.5 Ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink 1 or 2 glasses of water. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to eyes and skin.

4.3 Indication of immediate medical attention and special treatment needed

No special instructions.

SECTION 5. FIREFIGHTING MEASURES**5.1 Extinguishing media****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Contact with metals liberates hydrogen gas.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

CAUSTIC SODA PEARL, POLISH

Date 30.9.2011

Previous date: 14.3.2008

5.4 Specific methods

Cool closed containers exposed to fire with water spray.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Pick up and transfer to properly labelled containers. Avoid dust formation.. After cleaning, flush away traces with water. Clean contaminated surface thoroughly.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid formation of dust and aerosols. Reacts violently with water. When diluting, always add the product to water. Never add water to the product.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry, cool and well-ventilated place. Protect against water. Keep away from food, drink and animal feedingstuffs. Do not store near acids.

Unsuitable materials for containers: Aluminium, Zinc, Tin.

7.3 Specific end use(s)

No special instructions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****8.1.1 Threshold limits**

1310-73-2 Sodium hydroxide 2 mg/m³ (15 min)

8.1.2 Other information on limit values

TWA: 0.5 mg/m³

STEL: 1.0 mg/m³

8.2 Exposure controls**8.2.1 Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Ensure that eyewash stations and safety showers are close to the workstation location. Use personal protective equipment.

8.2.2 Individual protection measures**8.2.2.1 Respiratory protection**

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Recommended Filter type: P2.

8.2.2.2 Hand protection

Rubber gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

8.2.2.3 Eye/face protection

Tightly fitting safety goggles

CAUSTIC SODA PEARL, POLISH

Date 30.9.2011

Previous date: 14.3.2008

- 8.2.2.4 Skin protection**
Rubber apron, Long sleeved clothing
- 8.2.3 Environmental exposure controls**
Should not be released into the environment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Important Health Safety and Environmental Information****Appearance**

solid, white

Odour

odourless

pH12.4 (1 g/l H₂O) (20 °C)**Melting point/freezing point**

318.4-322 °C

Initial boiling point and boiling range

1388-1390 °C

Vapour pressure

0 hPa (20 °C), 0.16 hPa (618°C), 1.333 hPa (739°C)

Relative density2.12÷2.13 g/cm³ (20 °C)**Solubility(ies)****Water solubility**42 g/100 cm³ (0 °C), 109 g/100 cm³ (20 °C), 347 g/100 cm³ (100 °C)**9.2 Other information**

soluble: Methanol, ethanol

insoluble: Acetone, Diethylether

SECTION 10. STABILITY AND REACTIVITY**10.1 Reactivity**

Exothermic reaction with strong acids. Reacts violently with water. Corrosive to many metals when in contact with water or humidity.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Gives off hydrogen by reaction with metals. Exothermic reaction with strong acids. Reacts violently with water.

10.4 Conditions to avoid

Protect from moisture. strongly hygroscopic

10.5 Incompatible materials

Acids, Aluminium, Magnesium, Zinc, Tin, Light metals

10.6 Hazardous decomposition products

Hydrogen gas

SECTION 11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Irritation and corrosion**

Causes severe skin burns and eye damage. Extremely corrosive and destructive to tissue. Causes severe skin burns and eye damage.

Concentration limits:

C > 5%: Skin. Corr. 1A: H314, Causes severe skin burns and eye damage.

2% ≤ C < 5%: Skin. Corr. 1A,H314, Causes severe skin burns and eye damage.

0.5% ≤ C < 2%: Skin. Irrit.2: H315, Causes skin irritation. Eye Irrit.2, H319, Causes serious eye irritation.

CAUSTIC SODA PEARL, POLISH

Date 30.9.2011

Previous date: 14.3.2008

Sensitisation

Contains no substance or substances classified as sensitising.

SECTION 12. ECOLOGICAL INFORMATION**12.1 Toxicity****Aquatic toxicity**

LC50/Fish,Daphnia/48h = 33 - 100 mg/l

12.2 Persistence and degradability

The product decomposes in nature - Thermal decomposition products: sodium carbonate

Biodegradation

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Bioaccumulation is unlikely.

12.4 Mobility in soil

Mobile in soils. Water solubility - completely soluble

12.5 Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

Ecological information: Not classified.

SECTION 13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Dispose of as hazardous waste in compliance with local and national regulations. Send to a licensed waste management company. Waste codes should be assigned by the user based on the application for which the product was used. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. The following Waste Codes are only suggestions: 060204 - sodium and potassium hydroxide
Clean container with water. Fully drained containers which are drop- and scrape-free can be treated as industrial waste, and can possibly be recycled.

SECTION 14. TRANSPORT INFORMATION

14.1	UN number	1823
14.2	UN proper shipping name	UN 1823 - Natriumhydroksidi, kiinteä, 8, II
14.3	Transport hazard class(es)	8
14.4	Packing group	II
14.5	Environmental hazards	Not classified.
14.6	Special precautions for users	Causes severe burns.
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not relevant

SECTION 15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

CAUSTIC SODA PEARL, POLISH

Date 30.9.2011

Previous date: 14.3.2008

This substance has been registered according to Regulation (EC) No. 1907/2006 (REACH). The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008. Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16. OTHER INFORMATION**16.1 Additions, Deletions, Revisions**

The document has been updated to meet the requirements of the Regulation (EC) No. 453/2010. The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

16.3 Key literature references and sources for data

Material Safety Data Sheet, 1.12.2010

16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements

R35 Causes severe burns.
H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

16.8 Additional information available from:

Algol Chemicals Oy

16.9 Date 30.9.2011