



P.O. BOX 1603
EUNICE, LA 70535
866-457-0064 or 337-457-0064

SAFETY DATA SHEET

CAUSTIC SODA

1. - IDENTIFICATION

1.1 Product Identifier:

Trade Name: Caustic Soda
CAS Number 1310-73-2
EC Number 215-185-5
Molecular Formula :H 1:O 1:Na 1:

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

Product Description: Cylindrical Solid Stick
Application of the substance/the mixture: Descaling
Details of the Supplier of the Safety Data Sheet:
Supplier: Delta Drilling Products & Services, LLC
154 Eastpark Drive
P O Box 1603
Eunice, LA 70535
Phone: (866) 457-0064

Emergency :
Phone: (800) 424-9300
Chemtrec (USA)

2. HAZARD(S) IDENTIFICATION

Classification of the substance or mixture:



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage



GHS09 Environment

Aquatic chronic 2 H411 Toxic to aquatic life with long lasting effect

Label elements:

GHS Label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



GHS05



GHS09

Signal word: Danger

Hazard-determining components of labeling:

a-(4-Nonylphenyl)-w-hydroxy-poly (oxy-1,2-ethanediyl) branched

Hazard Statements:

H314 Causes severe skin burns and eye damage.
H411 Toxic to aquatic life with long lasting effects

Precautionary statements:

P260 Do not breathe dusts or mists.
P280 Wear eye protection/face protection.
P273 Avoid release to the environment.
P264 Wash thoroughly after handling.
P303+P361+P353 If on skin (or hair): 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/doctor
P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P363 Wash contaminated clothing before reuse.
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
P391 Collect spillage.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity:

0% of the mixture consists of component(s) of unknown toxicity.

Classification system:

NFPA ratings (scale 0-4)



Health = 3
Fire = 1
Reactivity = 0

HMIS-ratings (scale 0-4)



Health = 4
Fire = 1
Reactivity = 0

Hazard(s) not otherwise classified (HNOC): None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

Non-hazardous components:

8061-51-6	Sodium Lignosulfonates	2-12%
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Chemical characterization: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous Components:

CAS: 5329-14-6 RTECS: WO 5950000	Sulphamic acid ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	25-50%
CAS: 25322-68-3	Polyethylene Glycol	25-50%
CAS: 127087-87-0 RTECS: WZ4750000	a-(4-Nonylphenyl)-w-hydroxy-poly(oxy-1,2-ethanediyl) branched ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	25-50%

4. FIRST-AID MEASURES

Description of first aid measures:

- General information:** Immediately remove any clothing soiled by the product.
- After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:** Immediately wash with water and soap and rinse thoroughly.
If skin irritation occurs, consult a doctor.
- After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:** Drink copious amounts of water and provide fresh air. Immediately call a doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed: No further relevant information available.

Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

Special hazards arising from the substance or mixture: No further relevant information available.

Advice for firefighters

Protective equipment: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

Methods and material for containment and cleaning up:

Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

Handling

Precautions for safe handling: Avoid creating and breathing dust/fume/gas/mist/vapors/spray.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities:

Storage

Requirements to be met by storerooms and receptacles: Store in the original container.

Information about storage in one common storage facility: Not required.

Further information and storage conditions: Keep receptacle tightly sealed.

Specific end use(s): No further relevant information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see section 7.

Control parameters:

Components with occupational exposure limits:	
25322-68-3 Polyesthylene Glycol	
WEEL	Long-term value: 10 mg/m ³ (H); MW>200

Additional information: The lists that were valid during the creation of this SDS were used as basis

Exposure controls:

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Breathing equipment: Not required.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/the substance/the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection:



Tightly sealed goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General Information

Appearance:

Form: Solid

Color: Brown

Odor: Soapy

Odor threshold: Not determined.

pH-value @ 20 °C(68 °F): 2

Change in condition

Melting point/Melting range: Not determined

Boiling point/Boiling range: 101 °C (214 °F)

Flash point: 101 °C (214 °F)

Flammability (solid, gaseous): Not determined.

Ignition temperature: (305 °C (581 °F))

Decomposition temperature:	Not determined.
Auto Igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not applicable.
Density @ 20 °C (68 °F):	1.094 g/cm ³ (9.129 lbs/gal)
Relative density:	Not determined.
Vapor Density:	Not applicable.
Evaporation rate:	Not applicable.
Solubility in / Miscibility with:	
Water:	Soluble.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solvent content:	
Organic solvents:	0.0%
Solids content:	100.0%
Other information:	No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity: No further relevant information available.

Chemical stability: Stable under normal conditions.

Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity:

LD/LC50 values that are relevant for classification:		
5329-14-6 sulphamic acid		
Oral	LD50	3160 mg/kg (rat)
25322-68-3 Polyethylene Glycol		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rabbit)

Primary irritant effect:

On the skin: Strong caustic effect on skin and mucous membranes.

On the eye:

Corrosive effect.

Causes serious eye irritation.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for Preparations:

Corrosive

Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Carcinogenic categories:

IARC (International Agency for Research on Cancer): None of the ingredients are listed.
NTP (National Toxicology Program): None of the ingredients are listed.
OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed.

12. ECOLOGICAL INFORMATION

Toxicity:

Aquatic toxicity:

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

Persistence and degradability: No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Ecotoxicological effects:

Remark: Harmful to fish

Additional ecological information:

General notes:

Must not reach bodies of water or drainage ditches undiluted or unneutralized.

Harmful to aquatic organisms

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

UN-Number:

DOT UN3260

ADR, IMDG, IATA UN2967

UN proper shipping name:

DOT Corrosive solid acidic inorganic, n.o.s. (Sulfamic acid)

ADR UN2967 Sulfamic acid mixture

IMDG, IATA SULPHAMIC ACID mixture

Transport hazard class(es):

DOT



Class 8 Corrosive substances

Label 8

ADR



Class: 8 (C2) Corrosive substances

Label: 8

IMDG, IATA

Class: 8 Corrosive substances
Label: 8
Packing group:
DOT, ADR, IMDG, IATA III
Environmental hazards:
Special marking (ADR): Symbol (fish and tree)
Special precautions for user: Warning: Corrosive substances
Danger code (Kemler): 80
EMS Number: F-A, S-B
Segregation groups Acids
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

Transport/Additional information:**DOT**

Quantity limitations: On passenger aircraft/rail: 25 kg
 On cargo aircraft only: 100 kg

ADR

Expected quantities (EQ): Code: E1
 Maximum net quantity per inner packaging: 30 g
 Maximum net quantity per outer packaging: 1000 g

IMDG

Limited quantities (LQ): 5 kg
Expected quantities (EQ): Code: E1
 Maximum net quantity per inner packaging: 30 g
 Maximum net quantity per outer packaging: 1000 g

UN "Model Regulation": UN2967, Sulfamic acid mixture, 8, III

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:
SARA (Superfund Amendments and Reauthorization):
Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed or exempt from listing.

California Proposition 65:
Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females.

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

New Jersey Right-to-Know List:	
5329-14-6	sulphamic acid
25322-68-3	Polyethylene Glycol
8061-51-6	Sodium Lignosulfonates
New Jersey Special Hazardous Substance List:	
None of the ingredients are listed.	
Pennsylvania Special Hazardous substance List:	
5329-14-6	sulphamic acid
25322-68-3	Polyethylene Glycol
8061-51-6	Sodium Lignosulfonates

Carcinogenic categories:

EPA (Environmental Protection Agency):
None of the ingredients are listed.
TLV (Threshold Limit Value established by ACGIH):
None of the ingredients are listed.
NIOSH-Ca (National Institute for Occupational Safety and Health):
None of the ingredients are listed.

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



GHS05 GHS09

Signal word: Danger

Hazard-determining components of labeling:

α -(4-Nonylphenyl)- ω -hydroxy-poly (oxy-1,2-ethanediyl) branched

Hazard statements:

H314 Causes severe skin burns and eye damage.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

- P260 Do not breathe dusts or mists.
- P280 Wear eye protection/face protection.
- P273 Avoid release to the environment.
- P264 Wash thoroughly after handling.
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- P363 Wash contaminated clothing before reuse.
- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
- P391 Collect spillage.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation/last revision: 02/12/2016/8

Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

AND: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods.

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment – Chronic Hazard, Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment – Chronic Hazard, Category 3

***Data compared to the previous version altered.**

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