

# SAFETY DATA SHEET

according to Regulation (EC) No. 453/2010

## CAUSTIC SODA BEADS

Revision Date: 03-Jan-2012

Revision Number: 11

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Identifier**

Product Name

CAUSTIC SODA BEADS

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

Recommended Use

pH Control

Uses Advised Against

No information available

**Details of the supplier of the safety data sheet**

Halliburton Energy Services  
Halliburton House, Howemoss Place  
Kirkhill Industrial Estate  
Dyce  
Aberdeen, AB21 0GN  
United Kingdom

Emergency Phone Number: +44 1224 795277 or +1 281 575 5000

[www.halliburton.com](http://www.halliburton.com)

For further information, please contact

**E-Mail address:**

fdunexchem@halliburton.com

**Emergency telephone number**

+44 1224 795277 or +1 281 575 5000

**Emergency telephone \$45 - (EC)1272/2008**

<b>Europe</b>	<b>112</b>
<b>Denmark</b>	Poison Control Hotline (DK): +45 82 12 12 12
<b>France</b>	ORFILA (FR): + 01 45 42 59 59
<b>Germany</b>	Poison Center Berlin (DE): +49 030 30686 790
<b>Italy</b>	Poison Center, Milan (IT): +39 02 6610 1029
<b>Netherlands</b>	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
<b>Norway</b>	Poisons Information (NO): + 47 22 591300
<b>Poland</b>	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97
<b>Spain</b>	Poison Information Service (ES): +34 91 562 04 20
<b>United Kingdom</b>	NHS Direct (UK): +44 0845 46 47

### 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

REGULATION (EC) No 1272/2008

Skin Corrosion / irritation	Category 1 - (H314)
Serious Eye Damage / Eye Irritation	Category 1 - (H318)
Substances/mixtures corrosive to metal.	Category 1 - (H290)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

## 2. HAZARDS IDENTIFICATION

For the full text of the R-phrases mentioned in this Section, see Section 16

**Classification** C - Corrosive.

**Risk Phrases** R35 Causes severe burns.

### Label Elements

### Hazard Pictograms



**Signal Word** Danger

### Hazard Statements

H314 - Causes severe skin burns and eye damage

### Contains

#### Substances

Sodium hydroxide

#### CAS Number

1310-73-2

### Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P280 - Wear eye protection/face protection

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

P390 - Absorb spillage to prevent material damage

### Other Hazards

None known

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	EINECS	CAS Number	PERCENT	EEC Classification	EU - CLP Substance Classification	REACH No.
Sodium hydroxide	215-185-5	1310-73-2	60 - 100%	C; R35	Skin Corr. 1A (H314) Eye Dam. 1 (H318) Corr. to Metal 1 (H290)	No data available

For the full text of the R-phrases mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

### Description of first aid measures

#### Inhalation

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

#### Eyes

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

#### 4. FIRST AID MEASURES

<b>Skin</b>	In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and launder before reuse. Destroy or properly dispose of contaminated shoes.
<b>Ingestion</b>	Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

#### Most Important symptoms and effects, both acute and delayed

May cause eye, skin, and respiratory burns.

#### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** Treat symptomatically

#### 5. FIREFIGHTING MEASURES

##### Extinguishing media

##### **Suitable Extinguishing Media**

All standard fire fighting media

##### **Extinguishing media which must not be used for safety reasons**

None known.

##### Special hazards arising from the substance of mixture

##### **Special Exposure Hazards**

May form explosive mixtures with strong acids. Reaction with steel and certain other metals generates flammable hydrogen gas.

##### Advice for firefighters

##### **Special Protective Equipment for Fire-Fighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Avoid creating and breathing dust.

See Section 12 for additional information

##### Environmental precautions

Prevent from entering sewers, waterways, or low areas.

##### Methods and material for containment and cleaning up

Neutralize to pH of 6-8. Scoop up and remove.

##### Reference to other sections

See Section 12 for additional information.

#### 7. HANDLING AND STORAGE

##### Precautions for Safe Handling

Avoid contact with eyes, skin, or clothing. Avoid creating or inhaling dust. Wash hands after use. Launder contaminated clothing before reuse.

##### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice

##### Conditions for safe storage, including any incompatibilities

Store away from acids. Store in a cool, dry location. Product has a shelf life of 24 months.

##### Specific End Use(s)

##### **Exposure Scenario**

No information available

##### **Other Guidelines**

No information available

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Control parameters

<b>Substances</b>	<b>EU</b>	<b>UK OEL</b>	<b>Netherlands</b>	<b>France OEL</b>	<b>Germany MAK/TRK</b>
Sodium hydroxide	Not applicable	2 mg/m <sup>3</sup>	Not applicable	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>

Substances	Italy	Poland	Hungary	Czech Republic	Denmark
Sodium hydroxide	Not applicable	0.5 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	Not applicable

**Derived No Effect Level (DNEL)** No information available.  
**Predicted No Effect Concentration (PNEC)** No information available.

**Exposure controls****Engineering Controls**

Use in a well ventilated area. Localized ventilation should be used to control dust levels.

**Personal protective equipment****Respiratory Protection**

Dust/mist respirator. (N95, P2/P3)

**Hand Protection**

Impervious rubber gloves.

**Skin Protection**

Full protective chemical resistant clothing.

**Eye Protection**

Chemical goggles; also wear a face shield if splashing hazard exists.

**Other Precautions**

Eyewash fountains and safety showers must be easily accessible.

**Environmental Exposure Controls**

No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties****Physical State:** Solid**Color:** White to off white**Odor:** Odorless**Odor Threshold:** No information availablePropertyValuesRemarks/ Method**pH:**

14

**Melting Point/Range**

No data available

**Freezing Point/Range (C):**

318°C

**Boiling Point/Range**

1388°C

**Flash Point**

No data available

**Evaporation rate**

No data available

**Vapor Pressure**

No data available

**Vapor Density**

No data available

**Specific Gravity**

2.13

**Water Solubility**

Soluble in water

**Solubility in other solvents**

No data available

**Partition coefficient: n-octanol/water**

No data available

**Autoignition Temperature**

No data available

**Decomposition Temperature**

No data available

**Viscosity**

No data available

**Explosive Properties**

No information available

**Oxidizing Properties**

No information available

**Other information****Molecular Weight**

40

**VOC Content (%)**

No data available

## 10. STABILITY AND REACTIVITY

**Reactivity**

Not applicable

**Chemical Stability**

Stable

**Possibility of Hazardous Reactions**

Will Not Occur

**Conditions to Avoid**

None anticipated

**Incompatible Materials**

Strong acids. Halogenated compounds. Prolonged contact with aluminum, lead, or zinc may liberate flammable hydrogen.

**Hazardous Decomposition Products**

None known.

## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

#### Acute Toxicity

Inhalation	Causes severe respiratory burns. May cause chemical pneumonia.
Eye Contact	Causes severe eye burns.
Skin Contact	Causes severe burns.
Ingestion	Causes burns of the mouth, throat and stomach.

**Chronic Effects/Carcinogenicity** Prolonged, excessive exposure may cause erosion of the teeth.

Substances	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hydroxide	130 - 140 mg/kg	1350 mg/kg	No data available

## 12. ECOLOGICAL INFORMATION

### Toxicity

#### Ecotoxicity Effects

Substances	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium hydroxide	No information available	LC50: 45.4 mg/l (Oncorhynchus mykiss)	No information available	No information available

#### Persistence and degradability

No information available

#### Bioaccumulative potential

No information available

#### Mobility in soil

No information available

#### Results of PBT and vPvB assessment

No information available.

#### Other adverse effects

##### Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Disposal Method

#### Contaminated Packaging

Disposal should be made in accordance with federal, state, and local regulations. This bag may contain residue of a hazardous material. Some authorities may regulate such containers as hazardous waste. Dispose of container according to national or local regulations.

## 14. TRANSPORT INFORMATION

### IMDG/IMO

UN Number:	UN1823,
UN Proper Shipping Name:	Sodium Hydroxide, Solid

**14. TRANSPORT INFORMATION**

Transport Hazard Class(es): , 8  
Packing Group: , II  
EMS: EmS F-A, S-B

**RID**

UN Number: UN1823,  
UN Proper Shipping Name: Sodium Hydroxide, Solid  
Transport Hazard Class(es): , 8  
Packing Group: , II

**ADR**

UN Number: UN1823,  
UN Proper Shipping Name: Sodium Hydroxide, Solid  
Transport Hazard Class(es): , 8  
Packing Group: , II

**IATA/ICAO**

UN Number: UN1823,  
UN Proper Shipping Name: Sodium Hydroxide, Solid  
Transport Hazard Class(es): , 8  
Packing Group: , II

Special Precautions for User None

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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

**EINECS Inventory** This product, and all its components, complies with EINECS  
**US TSCA Inventory** All components listed on inventory or are exempt.  
**Canadian DSL Inventory** All components listed on inventory or are exempt.

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**Germany, Water Endangering Classes (WGK)** WGK 1: Low hazard to waters.

**Chemical Safety Assessment**

No information available

**16. OTHER INFORMATION****Full text of R-phrases referred to under Sections 2 and 3**

R35 Causes severe burns.

**Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

Revision Date: 03-Jan-2012

Revision Note: Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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**16. OTHER INFORMATION**

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**Disclaimer Statement**

This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

**End of Safety Data Sheet**