

# SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

# Caustic Soda pearl/solid

Version 2.0 Print Date 2011/02/15 Revision Date 2011/02/15 MSDS code: MCSF001

#### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name : Caustic Soda pearl/solid

Index-No. : 011-002-00-6 : 1310-73-2 CAS-No. : 215-185-5 EC-No.

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

Use of the : At this time we do not yet have information on identified uses. Substance/Mixture

They will be included in this safety data sheet when available.

Recommended restrictions : At that time we do not yet have information on use restrictions.

on use They will be included in this safety data sheet when available.

#### 1.3. Details of the supplier of the safety data sheet

Company : Brenntag UK & Ireland

Albion House, Rawdon Park GB LS19 7XX Leeds Yeadon

Telephone : 0113 3879 200 Telefax : 0113 3879 280 E-mail address : msds@brenntag.co.uk

#### 1.4. Emergency telephone number

Emergency telephone : Emergency only telephone number (open 24 hours):

number 01865 407333 (N.C.E.C. Culham)

#### 2. Hazards identification

## 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

#### REGULATION (EC) No 1272/2008



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Hazard class	Hazard category	Target Organs	Hazard statements
Skin corrosion/irritation	Category 1A		H314

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

Directive 67/548/EEC or 1999/45/EC		
Hazard symbol / Category of danger	Risk phrases	
Corrosive (C)	R35	

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

#### Most important adverse effects

Human Health : See section 11 for toxicological information.

Physical and chemical : See section 9 for physicochemical information.

nazards

Potential environmental : See section 12 for environmental information.

effects

# 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

Precautionary statements

Prevention : P260 Do not breathe dust/ fume/ gas/ mist/

vapours/ spray.

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P280 Wear protective gloves/ eye protection/ face

protection.

P264 Wash hands thoroughly after handling.

Response : 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.

Hazardous components which must be listed on the label:

sodium hydroxide

#### 2.3. Other hazards

No other information is available.

## 3. Composition/information on ingredients

## 3.1. Substances

Chemical Name	Ide	ntification Number	Amount [%]
sodium hydroxide	Index-No. CAS-No. EC-No.	: 011-002-00-6 : 1310-73-2 : 215-185-5	<= 100

### 4. First aid measures

#### 4.1 Description of first aid measures

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General advice : Take off contaminated clothing and shoes immediately.

inhaled : In case of accident by inhalation: remove casualty to fresh air

and keep at rest. If breathing is irregular or stopped, administer

artificial respiration. Call a physician immediately.

n case of skin contact : Wash off immediately with plenty of water for at least 15

minutes. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and

with difficulty.

n case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Consult an eye specialist immediately.

Go to an ophthalmic hospital if possible.

f swallowed : Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician immediately. If a person vomits when lying on his back, place him in the recovery

position.

4.2 Most important symptoms and effects, both acute and delayed

symptoms : See Section 11 for more detailed information on health effects

and symptoms.

Effects : See Section 11 for more detailed information on health effects

and symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

No further information available.

### 5. Fire-fighting measures

## 5.1. Extinguishing media

Suitable extinguishing

nedia

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

The product itself does not burn.

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Unsuitable extinguishing

media

: No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards during fire ighting

: Forms slippery/greasy layers with water.

5.3. Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit)

urther information

: Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

#### 6. Accidental release measures

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

Personal precautions

: Use personal protective equipment. Keep away unprotected persons. Avoid dust formation. Avoid contact with the skin and the eyes. Do not breathe dust. For personal protection see

section 8.

6.2 **Environmental precautions** 

invironmental precautions : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

If the product contaminates rivers and lakes or drains inform

respective authorities.

#### 6.3 Methods and materials for containment and cleaning up

Methods and materials for ontainment and cleaning

: Use mechanical handling equipment. Keep in suitable, closed

containers for disposal.

urther information

: Danger of slipping if spilled Treat recovered material as described in the section "Disposal considerations".

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#### Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on personal protective equipment.

See Section 13 for waste treatment information.

#### 7. Handling and storage

#### 7.1 Precautions for safe handling

dvice on safe handling : Keep container tightly closed. Use personal protective

equipment. Avoid dust formation. Provide sufficient air exchange and/or exhaust in work rooms. Avoid contact with the skin and the eyes. Do not breathe dust. Emergency eye wash fountains and emergency showers should be available in the

immediate vicinity.

: Keep away from food, drink and animal feedingstuffs. Smoking, Hygiene measures

> eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off

contaminated clothing and shoes immediately.

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

Requirements for storage areas and containers

: Keep in an area equipped with alkali resistant flooring. Store in

original container.

Advice on protection against fire and explosion : The product is not flammable. Normal measures for preventive

fire protection.

Further information on torage conditions

: Keep tightly closed in a dry and cool place. Product is

hygroscopic.

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Do not store together with acids and ammonium salts. Materials to

avoid: Organic peroxides



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German storage class : 8B: Non-combustible substances, corrosive

7.3 Specific end uses

Specific use(s) : No information available.

# 8. Exposure controls/personal protection

# 8.1. Control parameters

Product: Caustic Soda pearl/solid CAS-No. 1310-73-2

#### **Derived No Effect Level**

Application Area : Workers
Exposure routes : Inhalation
Value : 1 mg/m3

Remarks : Short-term exposition

Application Area : Population Exposure routes : Inhalation Value : 1 mg/m3

Remarks : Long-term exposition

Component: sodium hydroxide

CAS-No.
1310-73-2

**Other OELs** 

Regulatory Basis : UK. EH40 Workplace Exposure Limits (WELs)

Regulatory List : EH40 WEL

Value type : Short Term Exposure Limit (STEL):

Value : 2 mg/m3

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## 8.2. Exposure controls

#### **Engineering measures**

Refer to protective measures listed in sections 7 and 8.

Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

### Personal protective equipment

Respiratory protection

Advice : Required if dust is released

Recommended Filter type:

Particle filter:P2 Particle filter:P3

Hand protection

Advice : The glove material has to be impermeable and resistant to the

product / the substance / the preparation.

Take note of the information given by the producer concerning permeability and break through times, and of special workplace

conditions (mechanical strain, duration of contact).

The following materials are suitable:

fluorocarbon rubber polychloroprene natural rubber butyl-rubber

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. Protective gloves should be replaced at first signs of wear.

Eye protection

Advice : Tightly fitting safety goggles

Skin and body protection

Advice : impervious clothing

**Environmental exposure controls** 

General advice : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

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If the product contaminates rivers and lakes or drains inform

respective authorities.

# 9. Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Form : crystalline

Colour : white

opaque

Odour : characteristic

faint

Odour Threshold : no data available

pH : 14

100 g/l

Melting point/range : 318 °C

Boiling point/boiling range : 1,390 °C

Flash point : does not flash

Evaporation rate : no data available

Flammability (solid, gas) : does not ignite

Upper explosion limit : not applicable

Lower explosion limit : not applicable

Vapour pressure : 1 hPa

739 °C

Relative vapour density : no data available

Density : 1.1 - 1.2 g/cm3

Water solubility : 1,090 g/l

20 °C

Partition coefficient: n-octanol/water : no data available

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Ignition temperature : not applicable

Thermal decomposition : no data available

Viscosity, dynamic : no data available

Explosivity : Product is not explosive.

Oxidizing properties : no data available

### 9.2 Other information

No further information available.

## 10. Stability and reactivity

# 10.1. Reactivity

Advice : Reacts with acids.

Gives off hydrogen by reaction with base metals (zinc,

aluminium).

10.2. Chemical stability

Advice : Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous reactions : Gives off hydrogen by reaction with base metals (zinc,

aluminium). Reacts exothermic with waterReacts exothermic

with acids.

10.4. Conditions to avoid

conditions to avoid : Protect from humidity and keep away from water.

Product is hygroscopic.

Thermal decomposition

Note : no data available

10.5. Incompatible materials

Materials to avoid : Materials to avoid:

Acids Light metals Water

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Alcohols

## 10.6. Hazardous decomposition products

Hazardous decomposition : No information available.

products

## 11. Toxicological information

### 11.1. Information on toxicological effects

Component: sodium hydroxide	CAS-No.
Component. Socialii nyaroxide	1310-73-2

#### **Acute toxicity**

## Inhalation

Remarks : Inhalation may cause pain in respiratory system, sneezing,

coughing and difficulty in breathing. Risk for pulmonary edema by

high concentration.

#### Irritation

## Skin

Species : rabbit

Result : Very corrosive

#### Eyes

Species : rabbit

Result : Very corrosive

Remarks : Risk of serious damage to eyes.

#### Sensitisation

Remarks : Patch test on human volunteers did not demonstrate sensitization

properties.

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### **Further information**

Other relevant toxicity : All numerical values for acute toxicity are calculated on the pure

information

substances.

#### 12. **Ecological information**

# 12.1. Toxicity

Component: sodium hydroxide	CAS-No.
Component. Sociali flyaroxide	1310-73-2

### **Acute toxicity**

#### **Fish**

: Gambusia affinis **Species** 

Exposure Time : 96 h : LC50 Value type Value : 125 mg/l

: Poecilia reticulata **Species** 

Exposure Time : 24 h : LC50 Value type Value : 145 mg/l

## Toxicity to daphnia and other aquatic invertebrates.

**Species** : Daphnia magna

Exposure time : 24 h : EC50 Value type Value : 76 mg/l

#### **Bacteria**

**Species** Photobacterium phosphoreum

Exposure time 15 min : EC50 Value type

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Value : 22 mg/l

## 12.2. Persistence and degradability

Product:	Caustic Soda pearl/solid	CAS-No. 1310-73-2
	Caustic Soua pearl/solid	

#### Persistence and degradability

#### Persistence

Remarks : no data available

Component: sodium hydroxide

CAS-No.
1310-73-2

#### Persistence and degradability

## Biodegradability

Remarks : The methods for determining biodegradability are not applicable to

inorganic substances.

## 12.3. Bioaccumulative potential

Product:	Caustic Soda pearl/solid	CAS-No.
	Caustic Soua pearl/sollu	1310-73-2

### **Bioaccumulation**

Remarks : Does not bioaccumulate.

## 12.4. Mobility in soil

Product:	Product	Caustic Soda pearl/solid	CAS-No.
	Toduct.	Caustic Soua peari/sonu	1310-73-2

### **Mobility**

Remarks : no data available

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#### 12.5. Results of PBT and vPvB assessment

Product: Caustic Soda pearl/solid CAS-No. 1310-73-2

#### Results of PBT and vPvB assessment

Remarks : no data available

#### 12.6. Other adverse effects

Product: Caustic Soda pearl/solid

CAS-No.
1310-73-2

### Additional ecological information

Remarks : Harmful effects to aquatic organisms due to pH-shift.

Neutralization is normally necessary before waste water is

discharged into water treatment plants.

Do not flush into surface water or sanitary sewer system.

#### 13. Disposal considerations

#### 13.1. Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special

disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.

Contaminated packaging : Empty contaminated packagings thoroughly. They can be

recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner

as the product.

European Waste Catalogue

Number

: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation

with the regional waste disposer.



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### 14. Transport information

### 14.1. UN number

1823

#### 14.2. UN proper shipping name

ADR : SODIUM HYDROXIDE, SOLID RID : SODIUM HYDROXIDE, SOLID IMDG : SODIUM HYDROXIDE, SOLID

## 14.3. Transport hazard class(es)

ADR-Class : (Labels; Classification Code; Hazard

identification No; Tunnel restriction code)

8; C6; 80; (E)

8

RID-Class : (Labels; Classification Code; Hazard 8

identification No)

8; C6; 80

IMDG-Class (Labels; EmS)

8; F-A, S-B

# 14.4. Packaging group

ADR : II

RID : II

IMDG : II

#### 14.5. Environmental hazards

Labeling according to 5.2.1.8 ADR : no Labeling according to 5.2.1.8 RID : no

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Labeling according to 5.2.1.6.3 IMDG : no Classification as environmentally : no

hazardous according to 2.9.3 IMDG

Classified as "P" according to 2.10 IMDG : no

## 14.6. Special precautions for user

Not applicable.

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

IMDG : Not applicable.

## 15. Regulatory information

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

## sodium hydroxide:

Regulatory List	Notification	Notification number
AIČS Ž	YES	
DSL	YES	
NV (CN)	YES	
ENCS (JP)	YES	(1)-410
SHL (JP)	YES	(1)-410
TSCA` ´	YES	. ,
EINECS	YES	215-185-5
KECI (KR)	YES	97-1-136
KECI (KR)	YES	KE-31487
PICCS (PH)	YES	

## 15.2. Chemical Safety Assessment

Currently we do not have any Information from our supplier about this.

## 16. Other information



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Full text of R-phrases referred to under sections 2 and 3.

R35 Causes severe burns.

Full text of H-Statements referred to under sections 2 and 3.

H314 Causes severe skin burns and eye damage.

#### **Further information**

Other information

: Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use.

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality

specification and does not constitute a legal relationship.

The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

|| Indicates updated section.