



SAFETY DATA SHEET

CAUSTIC SODA PEARL

Page: 1

Compilation date: 28/06/2016

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: CAUSTIC SODA PEARL

REACH registered number(s): 01-2119457892-27-XXXX

CAS number: 1310-73-2

EINECS number: 215-185-5

Index number: 011-002-00-6

Product code: 1256

Synonyms: SODIUM HYDROXIDE

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

Use of substance / mixture: PC2: Adsorbents. PC14: Metal surface treatment products, including galvanic and electroplating products. PC15: Non-metal-surface treatment products. PC19: Intermediate. PC20: Products such as pH-regulators, flocculants, precipitants, neutralization agents. PC21: Laboratory chemicals. PC27: Plant protection products. PC35: Washing and cleaning products (including solvent based products). PC36: Water softeners. PC37: Water treatment chemicals. PC40: Extraction agents. PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations* and articles (multistage and/or significant contact) PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing

1.3. Details of the supplier of the safety data sheet

Company name: VALLEY INDUSTRIAL PRODUCTS LTD

VALLEY HOUSE

PERRY ROAD

HARLOW

ESSEX

CM18 7NE

Tel: 0208 884 3402

Email: INFO@VIPCLEAN.CO.UK

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SAFETY DATA SHEET

CAUSTIC SODA PEARL

Page: 2

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Skin Corr. 1A: H314; Met. Corr. 1: H290; Eye Dam. 1: H318

Most important adverse effects: Causes severe skin burns and eye damage. May be corrosive to metals.

2.2. Label elements

Label elements:

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

H290: May be corrosive to metals.

Hazard pictograms: GHS05: Corrosion



Signal words: Danger

Precautionary statements: P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water .

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P234: Keep only in original packaging.

P501: Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

SODIUM HYDROXIDE

EINECS	CAS	PBT / WEL	CLP Classification	Percent
215-185-5	1310-73-2	-	Skin Corr. 1A: H314	30-50%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

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SAFETY DATA SHEET

CAUSTIC SODA PEARL

Page: 3

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Move to fresh air in case of accidental inhalation of vapours. Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

Skin contact: Severe burns may occur. Blistering may occur. Prolonged contact causes serious tissue damage

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. There may be bleeding from the mouth or nose. Blood may be vomited. There may be vomiting. Swallowing concentrated chemical may cause severe internal injury

Inhalation: There may be shortness of breath with a burning sensation in the throat. There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing. Upper respiratory irritation. Tracheobronchitis, pulmonary oedema

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. DO NOT USE WATER JET AS AN EXTINGUISHER, AS THIS WILL SPREAD THE FIRE

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Corrosive. In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: If outside keep bystanders upwind and away from danger point. Mark out the

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SAFETY DATA SHEET

CAUSTIC SODA PEARL

Page: 4

contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Use industrial vacuum cleaner to remove material.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air. Prevent contact with water.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Polyethylene. Stainless steel.

7.3. Specific end use(s)

Specific end use(s): PC2: Adsorbents. PC14: Metal surface treatment products, including galvanic and electroplating products. PC15: Non-metal-surface treatment products. PC19: Intermediate. PC20: Products such as pH-regulators, flocculants, precipitants, neutralization agents. PC21: Laboratory chemicals. PC27: Plant protection products. PC35: Washing and cleaning products (including solvent based products). PC36: Water softeners. PC37: Water treatment chemicals. PC40: Extraction agents.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	WEL 2 mg/m ³	-	-

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SAFETY DATA SHEET

CAUSTIC SODA PEARL

Page: 5

Hazardous ingredients:

SODIUM HYDROXIDE

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	2 mg/m ³	-	-

DNEL/PNEC Values

CAUSTIC SODA PEARL

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	1mg/m ³	Consumers	Local
DNEL	Dermal	2mg/kg/day	Workers	Local
DNEL	Inhalation	2mg/m ³	Workers	Local
DNEL	Inhalation	1mg/m ³	Workers	Local

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Particle filter class P2S (EN143).

Hand protection: Impermeable gloves. Breakthrough time of the glove material > 8 hours. PVC gloves. Neoprene gloves. Rubber gloves. Butyl gloves.

Eye protection: Safety glasses with side-shields. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Environmental: Ensure all engineering measures mentioned in section 7 of SDS are in place.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Pellets

Colour: White

Odour: Odourless

Evaporation rate: No data available.

Solubility in water: Soluble

Also soluble in: Ethanol.

Viscosity: Non-viscous

Boiling point/range°C: 1378-1403°C

Vapour pressure: 10hPa@20°C

Melting point/range°C: 318-324°C

Relative density: 2.02-2.13 @20°C

9.2. Other information

Other information: No data available.

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SAFETY DATA SHEET

CAUSTIC SODA PEARL

Page: 6

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: The following materials may react violently with the product Acids Water Organic nitro compounds

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Reacts violently with strong acids. Eexothermic reaction with acids Reacts violently with water. Never add water directly to this product as it may cause a vigorous reaction or boiling Always dilute by carefully pouring the product into water

10.4. Conditions to avoid

Conditions to avoid: Heat. Moist air.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Aluminium. Magnesium. Zinc. Other metals or alloys

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RBT	LD50	500	mg/kg

Hazardous ingredients:

SODIUM HYDROXIDE

IPR	MUS	LD50	40	mg/kg
ORL	RBT	LDLO	500	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Severe burns may occur. Blistering may occur. Prolonged contact causes serious tissue damage

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SAFETY DATA SHEET

CAUSTIC SODA PEARL

Page: 7

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. There may be bleeding from the mouth or nose. Blood may be vomited. There may be vomiting. Swallowing concentrated chemical may cause severe internal injury

Inhalation: There may be shortness of breath with a burning sensation in the throat. There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing. Upper respiratory irritation. Tracheobronchitis, pulmonary oedema

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
FISH	96H LC50	33-189	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	45.5	mg/l
Daphnia magna	48H EC50	40-240	mg/l

12.2. Persistence and degradability

Persistence and degradability: Not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil. Soluble in water. May spread in water systems

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

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SAFETY DATA SHEET

CAUSTIC SODA PEARL

Page: 8

14.1. UN number

UN number: UN1823

14.2. UN proper shipping name

Shipping name: SODIUM HYDROXIDE SOLID
(SODIUM HYDROXIDE)

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: F-A, S-B

Tunnel code: E

Transport category: 2

Section 15: Regulatory information

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

Specific regulations: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended) Commission Regulation (EU) No 2015/830 of 28 May 2015

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.