



Cleanux Chemicals Ltd

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Process Heading	Product Specification
Process Owner	R&D Dept.
Reference	CLE01-CSO
Created By	Richard Jedrocha
Signature	
Date	07/03/2020

SAFETY DATA SHEET ACCORDING TO 1907/2006/EC, ARTICLE 31

CAUSTIC SODA PEARL

SECTION1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name	CAUSTIC SODA PEARL
Product number	CSOCLE005

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

Identified uses	(SU3) Uses of substances as such or in preparations at industrial sites (PROC1), (PROC2), (PROC4), (PROC8b), (PROC9), (PROC3)
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1.3 Details of the supplier of the safety data sheet

Supplier	Cleanux Chemicals Ltd Markays House Gordon Road Waltham Abbey EN9 1AF UK Tel: +44(0)207 854 1234 info@cleanux.co.uk
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1.4 Emergency telephone number

Emergency telephone	Emergency contact number 0207 854 1234 (9am to 5pm Monday to Friday excluding bank holidays). Ask for Technical Department quoting the product name. Outside of these hours please contact your doctor or local hospital accident and emergency department or the NHS enquiry service (dial 111) quoting product name and present this MSDS advising them that the product is registered with the National Poisons Information Service
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SECTION 2: HAZARDS IDENTIFICATION**2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE****2.1.1 Classification – 1999/45/EC
Main Hazards**

SKIN CORR. 1A-H314; EYE DAM. 1-H318
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE

2.2 LABEL ELEMENTS**Symbols****Signal word**

DANGER

Hazard statement

H314-CAUSES SEVERE SKIN BURNS AND EYE DAMAGE

**Precautionary
Statement: Prevention**

P102-KEEP OUT OF REACH OF CHILDREN.
P260-DO NOT BREATHE MIST.
P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.

**Precautionary
Statement: Response**

P264- WASH THOROUGHLY AFTER HANDLING
P 15- RESTRICTED TO PROFESSIONAL USERS.

P301+P330+P331- IF SWALLOWED: RINSE MOUTH. Do NOT INDUCE VOMITING.
P303+P361+P353- IF ON SKIN (OR HAIR): TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER.
P304+P340-IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.
P305+P351+P338- IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL AT HAND
P310-IMMEDIATELY CALL A POISON CENTRE OR DOCTOR/PHYSICIAN
P321-SPECIFIC TREATMENT (SEE ON THIS LABEL)
P363-WASH CONTAMINATED CLOTHING BEFORE REUSE.

KEEP CONTAINER TIGHTLY CLOSED AND DRY
KEEP LOCKED UP AND OUT OF THE REACH OF CHILDREN
KEEP ONLY IN ORIGINAL CONTAINER
P404-STORE LOCKED UP

**Precautionary Statement
Storage**

2.3 OTHER HAZARDS

Other hazards	Causes severe burns
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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Name	Range	EC No	CAS No	Reach No/Submission No	Classification according to 67/548/EEC
SODIUM HYDROXIDE	99%	215-185-5	1310-73-2	01-2119457892-27	H314

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Inhalation	IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE (SHOW THE LABEL WHERE POSSIBLE). IN CASE OF ACCIDENT BY INHALATION: REMOVE CASUALTY TO FRESH AIR AND KEEP AT REST.
Eye contact	CONTACT LENSES SHOULD BE REMOVED. RINSE IMMEDIATELY WITH PLENTY OF WATER FOR 15 MINUTES HOLDING THE EYELIDS OPEN. SEEK MEDICAL ATTENTION.
Skin Contact	
Ingestion	DO NOT INDUCE VOMITING. DRINK 1 TO 2 GLASSES OF WATER. IF SWALLOWED, RINSE MOUTH WITH WATER (ONLY IF PERSON IS CONSCIOUS). IMMEDIATE MEDICAL ATTENTION IS REQUIRED. NEVER GIVE A TO AN UNCONSCIOUS PERSON. RINSE MOUTH THOROUGHLY. SEEK MEDICAL ATTENTION.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Inhalation	CAUSES SEVERE BURNS. COUGHING, DIFFICULTY BREATHING. INHALATION MAY CAUSE NAUSEA AND VOMITING.
Eye contact	CAUSES SEVERE BURNS. CAUSES SERIOUS EYE TISSUE DAMAGE.
Skin Contact	SEVERE CORROSIVE SKIN DAMAGE. BLISTERS
Ingestion	CAUSES SEVERE BURNS. CORROSIVE AND IRRITANT EFFECTS INGESTION MAY CAUSE NAUSEA AND VOMITING.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Inhalation	IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE (SHOW LABEL WHERE POSSIBLE) REMOVE THE EFFECTED PERSON FROM THE SOURCE OF CONTAMINATION IMMEDIATELY.
Eye contact	CAUSES SEVERE BURNS. RINSE IMMEDIATELY WITH PLENTY OF WATER FOR 15 MINUTES. REMOVE ANY CONTACT LENSES AND OPEN EYELIDS. GET MEDICAL ATTENTION.
Skin Contact	CAUSES SEVERE BURNS. REMOVE ALL CONTAMINATED CLOTHES AND FOOTWEAR IMMEDIATELY UNLESS STUCK TO SKIN. RINSE IMMEDIATELY WITH PLENTY OF WATER. GET MEDICAL ATTENTION
Ingestion	DO NOT INDUCE VOMITING, RINSE MOUTH THOROUGHLY. DRINK 1 TO 2 GLASSES OF WATER. SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

GENERAL INFORMATION

	AVOID CONTACT WITH EYES AND SKIN. IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL SEEK
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	MEDICAL ADVICE IMMEDIATELY (SHOW LABEL WHERE POSSIBLE) CAUSES SEVERE BURNS
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SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

	CARBON DIOXIDE (CO ₂) FOAM
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5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

	REACTS VIOLENTLY WITH WATER. BURNING PRODUCES IRRITANT, TOXIC OBNOXIOUS FUMES.
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5.3 ADVICE FOR FIREFIGHTERS

	SELF-CONTAINED BREATHING APPARATUS. (SCBA) FORMS SLIPPERY/GREASY LAYERS WITH WATER.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

	APPROPRIATE RESPIRATORY PROTECTION. WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION. RUBBER BOOTS.
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6.2 ENVIRONMENTAL PRECAUTIONS

	ADVISE LOCAL AUTHORITIES IF LARGE SPILLS CANNOT BE CONTAINED. DO NOT EMPTY INTO DRAINS.
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6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

	ABSORB WITH INERT, ABSORBENT MATERIAL.
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6.4 REFERENCE TO OTHER SECTIONS

	FOR PERSONAL PROTECTION, SEE SECTION 8, FOR WASTE DISPOSAL SEE SECTION 13.
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FURTHER INFORMATION

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SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

	WEAR PROTECTIVE GLOVES, EYE/FACE PROTECTION. ADOPT BEST MANUAL HANDLING CONSIDERATIONS WHEN HANDLING, CARRYING AND DISPENSING. AVOID CONTACT WITH EYES AN SKIN. KEEP ONLY IN THE ORIGINAL CONTAINER. KEEP OUT OF REACH OF CHILDREN.
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7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

	KEEP CONTAINER TIGHTLY CLOSED AND DRY. KEEP LOCKED UP AND OUT OF THE REACH OF CHILDREN. KEEP ONLY IN THE ORIGINAL CONTAINER. AVOID CONTACT WITH: COPPER, ZINC, ALUMINIUM, COPPER ALLOY, ZINC ALLOY. AVOID CONTACT WITH OXIDISING AGENTS.
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7.3 SPECIFIC END USE(S)

	THE IDENTIFIED USES FOR THIS PRODUCT ARE DETAILED IN SECTION 1.2.
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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

NO DATA IS AVAILABLE ON THIS PRODUCT

8.1.1 Exposure Limit Values

8.2 EXPOSURE CONTROLS



8.2.1 Appropriate engineering controls

ENSURE ADEQUATE VENTILATION OF THE WORKING AREA.

8.2.2 Individual protection measures

APPROVED SAFETY GOGGLES. PROTECTIVE CLOTHING. RUBBER BOOTS, WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION.

Eye/face protection

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION

Skin protection

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION

Hand protection

CHEMICAL RESISTANT GLOVES (PLASTIC)

Skin protection – other

WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION

Respiratory protection

NOT NORMALLY REQUIRED

Thermal hazards

NO DATA IS AVAILABLE ON THIS PRODUCT

8.2.3 Environmental exposure controls

NOT NORMALLY REQUIRED

Occupational exposure controls

NOT NORMALLY REQUIRED. USE AS APPROPRIATE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

State

POWDER

Colour

WHITE

Odour

CHARACTERISTIC

pH

13-14

Melting point	102
Freezing point	-2
Boiling point	102
Flash point	NOT APPLICABLE
Evaporation rate	NOT APPLICABLE
Flammability limits	NOT APPLICABLE
Vapour flammability	NOT APPLICABLE
Vapour pressure	NOT APPLICABLE
Vapour density	NOT APPLICABLE
Relative density	NOT RELEVANT
Fat solubility	NOT APPLICABLE
Partition coefficient	NOT APPLICABLE
Autoignition temperature	325
Explosive	NOT APPLICABLE
Oxidising	NOT APPLICABLE
Solubility	NOT APPLICABLE

9.2 OTHER INFORMATION

Conductivity	NOT APPLICABLE
Surface tension	NOT APPLICABLE
Gas group	NOT APPLICABLE
Benzene content	NOT APPLICABLE
Lead content	NOT APPLICABLE
VOC (volatile organic compounds)	NOT APPLICABLE

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

	ACIDS
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10.2 CHEMICAL STABILITY

	STABLE UNDER NORMAL CONDITIONS
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10.3 POSSIBILITY OF HAZARDOUS REACTIONS

	SEE SECTION 10.1, 10.4, 10.5
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10.4 CONDITIONS TO AVOID

	DO NOT ALLOW TO FREEZE
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10.5 INCOMPATIBLE MATERIALS

	STRONG ACIDS. ALUMINIUM, Tl , ZINC AND THEIR ALLOYS
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10.6 HAZARDOUS DECOMPOSITION PRODUCTS

	CARBON DIOXIDE (CO2)
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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute toxicity	NO DATA IS AVAILABLE ON THIS PRODUCT.
Skin corrosion/irritation	IRRITATING TO EYES AN SKIN
Serious eye damage/irritation	EYE IRRIT 2:H319- CAUSES SERIOUS EYE IRRITATION.
Respiratory or skin sensitisation	MAY CAUSE SENSITISATION BY SKIN CONTACT.
Germ cell mutagenicity	NO DATA IS AVAILABLE ON THIS PRODUCT.
Carcinogenicity	NO DATA IS AVAILABLE ON THIS PRODUCT.
Reproductive toxicity	NO DATA IS AVAILABLE ON THIS PRODUCT.
STOT-single exposure	NO DATA IS AVAILABLE ON THIS PRODUCT.
STOT-repeated exposure	NO DATA IS AVAILABLE ON THIS PRODUCT.
11.1.4 Toxicological Information	DERMAL RAT LD50: 200 MG/KG ORAL RAT LD50: 11700 MG/KG

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

Sodium Hydroxide	DAFHINA EC50/48H: 400.0000MG/L	FISH LC50/96: 33.000MG/L
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12.2 PERSISTENCE AND DEGRADABILITY

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12.3 BIOACCUMULATIVE POTENTIAL

	DOES NOT BIOACCUMULATION
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12.4 MOBILITY IN SOIL

	DO NOT LET PRODUCT CONTAMINATE SUBSOIL.
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12.5 RESULTS OF PBT AND VPVB ASSESSMENT

	THIS PRODUCT DOES NOT CONTAIN ANY SUBSTANCES CLASSIFIED AS PBT OR VPVB
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12.6 OTHER ADVERSE EFFECTS

	NO DATA IS AVAILABLE ON THIS PRODUCT.
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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

	DISCHARGE USED SOLUTIONS TO DRAIN. SMALL AMOUNTS (LESS THAN 5 LITRES) OF UNWANTED PRODUCT MAY BE FLUSHED WITH WATER TO SEWER. LARGE VOLUMES MUST BE SENT FOR DISPOSAL AS SPECIAL WASTE. RINSE OUT EMPTY CONTAINER WITH WATER AND CONSIGN TO NORMAL WASTE.
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GENERAL INFORMATION

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DISPOSAL METHODS

	LOCAL AND NATIONAL REGULATIONS. THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY.
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DISPOSAL OF PACKAGING

	EMPTY CONTAINERS CAN BE CLEANED WITH WATER. EMPTY CONTAINERS CAN BE SENT FOR DISPOSAL OR RECYCLING.
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SECTION 14: TRANSPORT INFORMATION

Hazard pictograms



14.1. UN NUMBER

	1824
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14.2. UN PROPER SHIPPING NAME

	SODIUM HYDROXIDE, SOLUTION
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14.3. TRANSPORT HAZARD CLASS(ES)

ADR/RID	8 CORROSIVE SUBSTANCE
IMDG	8 CORROSIVE SUBSTANCE
ICAO	8 CORROSIVE SUBSTANCE

14.4. PACKING GROUP

ADR/RID	11
IMDG	11
ICAO	11

14.5. ENVIRONMENTAL HAZARDS

Environmental hazard	No
Marine pollutant	No

SECTION 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Regulations	COMMISSION REGULATION (EU) No 453/2010 OF 20 MAY 2010 AMENDING REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL ON THE REGISTRATION, EVALUATION, AUTHORISATION AND RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICAL AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) No 793/93 AND COMMISSION REGULATION (EC) No 1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC AND COMMISSION DIRECTIVES 91/155/EEC, 93/67/EEC, 93/105/EEC AND 2000/21/EC. 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) ESTABLISHING A EUROPEAN CHEMICAL AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) No 793/93 AND COMMISSION REGULATION (EC) No 1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC AND COMMISSION DIRECTIVES 91/155/EEC, 93/67/EEC AND 2000/21/EC
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15.2 CHEMICAL SAFETY ASSESSMENT

	NO DATA IS AVAILABLE ON THIS PRODUCT
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SECTION 16: OTHER INFORMATION

OTHER INFORMATION

Text of risk phrases in Section 3	H314-CAUSES SEVERE SKIN BURNS AND EYE DAMAGE
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GENERAL INFORMATION

	THIS INFORMATION IS CORRECT TO THE BEST OF OUR KNOWLEDGE AND BELIEF AT THE DATE OF PUBLICATION HOWEVER NO GUARANTEE IS MADE TO ITS ACCURACY.
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FURTHER INFORMATION

	<p>The information contained in this data sheet is, to the best of our knowledge and belief, accurate and is based upon our technical knowledge of the product and the date of issue. No warranty or representation, express or implied, is made as to its accuracy, reliability or completeness.</p> <p>CLEANUX CHEMICALS LTD WILL NOT BE RESPONSIBLE FOR ANY DAMAGE OR INJURY RESULTING FROM ANY INHERENT HAZARD OF THE MATERIAL, THE ABNORMAL USE OF THE MATERIAL OR FROM FAILURE TO ADHERE TO RECOMMENDATION.</p>
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