

## SAFETY DATA SHEET

SODIUM HYDROXIDE

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Compilation date: 03/05/2017

Revision date: 09/01/2020

Revision No: 3

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

#### 1.1. Product identifier

**Product name:** SODIUM HYDROXIDE

**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:** CASOGEN

**Synonyms:** CAUSTIC SODA PEARL

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

**Use of substance / mixture:** THIS PRODUCT IS A CORROSIVE PRODUCT UNDER UK OFFENSIVE WEAPONS ACT 2019 WHICH RESTRICTS SALE OR DELIVERY TO SOMEONE UNDER THE AGE OF 18 YEARS OLD. Industrial Use. Professional Use. Consumer Use.

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

**Company name:** Curust Industries Ltd  
E12/13, Southern Cross Business Park  
Boghall Road  
Bray  
Co. Wicklow

**Tel:** 01 2760800

**Fax:** 01 2760799

**Email:** info@curust.ie

#### 1.4. Emergency telephone number

**Emergency tel:** (01) 2760800 (Office hours only 8.30am - 5pm Mon- Fri)

### Section 2: Hazards identification

[cont...]

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### 2.1. Classification of the substance or mixture

**Classification under CLP:** \* Met. Corr. 1: H290; Skin Corr. 1A: H314

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

### 2.2. Label elements

**Label elements:**

**Hazard statements:** \* H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

**Hazard pictograms:** GHS05: Corrosion



**Signal words:** Danger

**Precautionary statements:** P102: Keep out of reach of children.

P234: Keep only in original packaging.

P260: Do not breathe dust/fumes.

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

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 .

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 POISON CENTER or doctor/physician.

P321: Specific treatment (see medical advice on this label)

P363: Wash contaminated clothing before reuse.

P405: Store locked up.

P501: Dispose of contents/container to a hazardous or special waste collection point.

### 2.3. Other hazards

**Other hazards:** Reactions with the following materials may generate heat: Strong acids, Water.

## Section 3: Composition/information on ingredients

### 3.1. Substances

**Chemical identity:** SODIUM HYDROXIDE

**CAS number:** 1310-73-2

**EINECS number:** 215-185-5

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

## Section 4: First aid measures

[cont...]

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### 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.
- 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:** 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:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.
- Eye contact:** Corneal burns may occur. May cause permanent damage.
- Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.
- Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

**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:** Treat Symptomatically.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Carbon dioxide. Dry chemical powder. Do not use water jet

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** Corrosive. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

### 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.

[cont...]

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### 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 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. Do not create dust.

#### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

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

**Clean-up procedures:** Transfer to a closable, labelled salvage container for disposal by an appropriate method. Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Refer to section 13 of SDS for suitable method of disposal.

#### 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.

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

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

#### 7.3. Specific end use(s)

**Specific end use(s):** PC35: Washing and cleaning products (including solvent based products). PC37: Water treatment chemicals. PC38: Welding and soldering products (with flux coatings or flux cores.), flux products. PC39: Cosmetics, personal care products.

### 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	-	2 mg/m <sup>3</sup>	-	-

[cont...]

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**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 <sup>3</sup>	-	-

### DNEL/PNEC Values

**SODIUM HYDROXIDE**

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	1 mg/m <sup>3</sup>	Consumers	Local
DNEL	Dermal	2 mg/kg/day	Workers	Local
DNEL	Inhalation	2mg/m <sup>3</sup>	Workers	Local
DNEL	Inhalation (repeated dose)	1 mg/m <sup>3</sup>	Workers	Local
DNEL	Inhalation	1 mg/m <sup>3</sup>	Workers	Local
DNEL	Inhalation	1 mg/m <sup>3</sup>	General Population	Local

**Hazardous ingredients:**

**SODIUM HYDROXIDE**

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	1 mg/m <sup>3</sup>	Consumers	Local
DNEL	Dermal	2 mg/kg/day	Workers	Local
DNEL	Inhalation	2mg/m <sup>3</sup>	Workers	Local
DNEL	Inhalation (repeated dose)	1 mg/m <sup>3</sup>	Workers	Local
DNEL	Inhalation	1 mg/m <sup>3</sup>	Workers	Local
DNEL	Inhalation	1 mg/m <sup>3</sup>	General Population	Local

### 8.2. Exposure controls

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

**Respiratory protection:** If ventilation is insufficient suitable respiratory protection must be provided.

Respiratory protective device with particle filter.

**Hand protection:** Protective gloves. Nitrile gloves. Breakthrough time of the glove material > 8 hours.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Eye protection:** Tightly fitting safety goggles. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Skin protection:** Protective clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

[cont...]

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**Environmental:** Prevent from entering in public sewers or the immediate environment.

### Section 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

**State:** Solid

**Colour:** White

**Odour:** Odourless

**Evaporation rate:** No data available.

**Oxidising:** No data available.

**Solubility in water:** Soluble

**Also soluble in:** Alcohols.

**Viscosity:** No data available.

**Boiling point/range°C:** 1388-1390

**Melting point/range°C:** 318

**Flammability limits %: lower:** No data available.

**upper:** No data available.

**Flash point°C:** No data available.

**Part.coeff. n-octanol/water:** No data available.

**Autoflammability°C:** No data available.

**Vapour pressure:** 1 Pa @ 513 oC

**Relative density:** 2.13 @ 20 oC

**pH:** 14 @ 10% Diluted Sol

**VOC g/l:** No data available.

#### 9.2. Other information

**Other information:** No data available.

### Section 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

#### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

#### 10.4. Conditions to avoid

**Conditions to avoid:** Heat.

#### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids. Organic materials.

#### 10.6. Hazardous decomposition products

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

### Section 11: Toxicological information

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### 11.1. Information on toxicological effects

#### Toxicity values:

Route	Species	Test	Value	Units
IPR	MUS	LD50	40	mg/kg
ORL	RBT	LDLO	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:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

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

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

**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
Daphnia magna	48H EC50	40-240	mg/l
ALGAE	96H LC50	33-189	mg/l

#### Hazardous ingredients:

##### SODIUM HYDROXIDE

ALGAE	96H LC50	33-189	mg/l
Daphnia magna	48H EC50	40-240	mg/l

[cont...]

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### 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:** Product is water soluble and 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

### 14.1. UN number

**UN number:** UN1823

### 14.2. UN proper shipping name

**Shipping name:** SODIUM HYDROXIDE, SOLID

### 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:** No special precautions.

**Tunnel code:** E

**Transport category:** 2

[cont...]



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### Section 15: Regulatory information

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

**Specific regulations:** Retail packs require a child resistant closure to BS EN ISO 28317 and a tactile warning triangle. THIS PRODUCT IS A CORROSIVE PRODUCT UNDER UK OFFENSIVE WEAPONS ACT 2019 AND RESTRICTS SALE OR DELIVERY TO SOMEONE UNDER THE AGE OF 18 YEARS OLD.

#### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

### Section 16: Other information

#### Other information

**Other information:** according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 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.