SAFETY DATA SHEET

according to Regulation (EU) 2015/830

caustic soda

Revision 12

Revision date 2020-07-17

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

1.1. Product identifier

Product name	caustic soda
REACH Registration Number	01-2119457892-27
CAS No.	1310-73-2
EC No.	215-185-5
Index No.	011-002-00-6
Product code	SHP 30

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

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); ----- [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites;
Description	Chemical Chemical Intermediate Detergent. Soaps.

1.3. Details of the supplier of the safety data sheet

Company	Superfine Manufacturing Ltd
Address	Orchardbank Industrial Estate Forfar Angus Scotland DD8 1TD
Web	www.superfine.co.uk
Telephone	Tel: 01307 463538
Fax	Fax: 01307 468505
Email	nigel@superfine.co.uk
Email address of the competent person	nigel@superfine.co.uk

1.4. Emergency telephone number

Emergency telephone number	01307 463538 8.30am to 17.00pm National Poisons Information Service: For medical advice or information you should contact your GP or NHS 111 (or NHS 24 in Scotland) on 111 (for 24 hour health advice) If you are a healthcare professional with an enquiry please visit www.TOXBASE.org

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Skin Corr. 1A: H314;

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2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Met. Corr. 1: H290 - May be corrosive to metals. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.
Precautionary Statement: Prevention	P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P303+P361+P353 - IF ON SKIN (or hair): 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.
Precautionary Statement: Disposal	P501 - Dispose of contents/container to an approved disposal site, in accordance with local regulations.

2.3. Other hazards

Other hazards	This mixture is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.1. Substances

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
caustic soda (Sodium hydroxide)	011-002-00-6	1310-73-2	215-185-5	01-2119457892-27	90 - 100%	Skin Corr. 1A: H314;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed.
Skin contact	Remove contaminated clothing. Wash off immediately with plenty of soap and water.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Drink plenty of water to dilute ingested product.

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

Inhalation	Dust is severely irritating to the upper respiratory system. Symptoms following overexposure may include the following: Coughing. Wheezing/breathing difficulties. , May cause an asthma-like shortness of breath. Sore throat. Burning sensation in mouth. Upper respiratory irritation. Tracheobronchitis, pulmonary oedema.
Eye contact	Causes serious eye damage. May cause chemical eye burns. Symptoms following overexposure may include the following: Severe irritation, burning and tearing, Corneal damage. May cause permanent damage if eye is not immediately irrigated.
Skin contact	Causes severe burns. Blistering may occur. May cause serious chemical burns to the skin. Prolonged contact causes serious tissue damage.
Ingestion	Causes severe burns. May cause burns in mucous membranes, throat, oesophagus and stomach. Symptoms following overexposure may include the following: Burning sensation in mouth., Nausea, vomiting. Vomiting of blood. Swallowing concentrated chemical may cause severe internal injury.

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

Inhalation	Move the exposed person to fresh air. In case of accident or if you feel unwell, seek medical

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

	advice immediately (show the label where possible). Seek medical attention. Show this safety data sheet to the doctor in attendance.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed. Seek medical attention. Show this safety data sheet to the doctor in attendance.
Skin contact	Remove contaminated clothing immediately. Rinse immediately with plenty of water. Seek medical attention. Show this safety data sheet to the doctor in attendance.
Ingestion	Drink 1 to 2 glasses of water. Seek medical attention. Show this safety data sheet to the doctor in attendance.

General information

	If you feel unwell, seek medical advice (show the label where possible). Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	This product is not flammable . Use fire-extinguishing media appropriate for surrounding materials. Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

	Severe corrosive hazard. When heated, vapours/gases hazardous to health may be formed.

5.3. Advice for firefighters

	Fire fighters should wear self contained positive pressure breathing apparatus (SCBA) and full turnout gear.

Further information

	In the event of a fire and/or explosion do not breath fumes. Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Follow precautions for safe handling described in this safety data sheet. Keep unnecessary and unprotected personnel away from the spillage. Avoid inhalation of dust and contact with skin and eyes., Provide adequate ventilation.

6.2. Environmental precautions

	Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

	Avoid the spillage or runoff entering drains, sewers or watercourses. Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar, Collect and place in suitable waste disposal containers and seal securely. Clean contaminated objects and areas thoroughly, observing environmental regulations.

6.4. Reference to other sections

	See section 2, 7, 8, 13 for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Handle all packages and containers carefully to minimise spills. Avoid inhalation of dust and contact with skin and eyes. 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. Provide adequate ventilation.

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7.2. Conditions for safe storage, including any incompatibilities

	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Suitable container materials: Polyethylene. Stainless steel. Storage class - Corrosive storage.

7.3. Specific end use(s)

	Chemical Chemical Intermediate Detergent. Soaps.

Suitable packaging

	Plastic containers.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

	Occupational exposure controls.

8.1.1. Exposure Limit Values

caustic soda (Sodium hydroxide)	**WEL 8-hr limit ppm:** -	**WEL 8-hr limit mg/m3:** -
	WEL 15 min limit ppm: -	**WEL 15 min limit mg/m3:** 2
	WEL 8-hr limit mg/m3 total inhalable dust: -	**WEL 15 min limit mg/m3 total inhalable dust:** -
	WEL 8-hr limit mg/m3 total respirable dust: -	**WEL 15 min limit mg/m3 total respirable dust:** -

DNEL: Derived no-effect level.

Exposure Pattern - Workers

caustic soda	**Acute inhalation - Local effects** 2 mg/m³	
	Acute dermal - Local effects 2 mg/kg	**Long-term - inhalation - Local effects** 1 mg/m³

Exposure Pattern - General population

caustic soda	**Long-term - inhalation - Local effects** 1 mg/m³	

8.2. Exposure controls

	
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Use appropriate personal protective equipment. Wear suitable protective clothing and eye/face protection.
Eye / face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible, Chemical splash goggles and face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.
Skin protection - Handprotection	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. The selected gloves should have a breakthrough time of at least 8 hours. Polyvinyl chloride (PVC). Neoprene. Rubber (natural, latex). Butyl rubber., To protect hands from chemicals, gloves should comply with European Standard EN374.
Skin protection - Other	Wear appropriate clothing to prevent any possibility of skin contact.

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8.2. Exposure controls

Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible., If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Particulate filter, type P2, Particulate filters should comply with European Standard EN143.
8.2.3. Environmental exposure controls	Prevent further leakage or spillage if safe to do so.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Solid/Pellets
Colour	White
Odour	Odourless
Melting point	318 - 324 °C
Flammability (solid, gas)	No data available
Odour threshold	No data available
pH	> 14
Initial boiling point	1378 - 1403 °C
Flash point	No data available
Evaporation rate	No data available
Vapour pressure	10 hPa (20 degC)
Vapour density	No data available
Relative density	2.02 - 2.13 (H2O = 1 @ 20 °C)
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Bulk Density	1100 - 1200 kg/m3
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic compounds)	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Reacts violently with strong acids. Exothermic 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

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10.4. Conditions to avoid

Protect from moisture. Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Strong acids. Strong oxidising agents. Aluminium. Magnesium. Zinc. Other metals or alloys.

10.6. Hazardous decomposition products

Thermal decomposition or combustion products may include the following substances: Toxic and corrosive gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Acute toxicity - oral - LD_{50} >500 mg/kg, Oral, Rabbit. Acute toxicity - dermal - No specific test data are available. Acute toxicity - inhalation - No specific test data are available.
Skin corrosion/irritation	Causes severe burns.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT-single exposure	No information available.
STOT-repeated exposure	No information available.
Aspiration hazard	No information available.
Repeated or prolonged exposure	Causes burns. Prolonged contact may cause defatting of the skin. Danger of serious damage to health by prolonged exposure.

11.1.2. Mixtures

No data available.

11.1.3. Hazard Information

No data available.

11.1.4. Toxicological Information

No data available

SECTION 12: Ecological information

12.1. Toxicity

caustic soda	**Daphnia LC50/48h:** 40 - 240 mg/l	**Rainbow trout LC50/96h:** 45.5 mg/l
	Bluegill sunfish LC50/96h: 125 mg/l	**Guppy LC50/96h:** 33 - 189 mg/l

12.2. Persistence and degradability

The product contains only inorganic substances which are not biodegradable.

12.3. Bioaccumulative potential

The product is not bioaccumulating.

Partition coefficient

caustic soda No data available

12.4. Mobility in soil

The product is water-soluble and may spread in water systems.

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12.5. Results of PBT and vPvB assessment

This mixture is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

General information

Dispose of in compliance with all local and national requirements.

Disposal of packaging

Do NOT reuse empty containers. Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.

SECTION 14: Transport information

Hazard pictograms

14.1. UN number

UN1823

14.2. UN proper shipping name

SODIUM HYDROXIDE, SOLID

14.3. Transport hazard class(es)

ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

14.4. Packing group

Packing group	II

14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

ADR/RID

Hazard ID	80
Tunnel Category	(E)

IMDG

EmS Code	F-A S-B

IATA

Packing Instruction (Cargo)	863
Maximum quantity	50 kg

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IATA

Maximum quantity	15 kg

SECTION 15: Regulatory information

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

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), establishing a European Chemicals 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/EC and 2000/21/EC. 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 Chemicals 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/EC and 2000/21/EC.

15.2. Chemical safety assessment

	A chemical safety assessment has been carried out for the substance or the mixture by the supplier.

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas:. 11 - 11.1.4. Toxicological Information.
Text of Hazard Statements in Section 3	Met. Corr. 1: H290 - May be corrosive to metals. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.

Further information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. 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. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.