

A Geno Technology, Inc. (USA) brand name

Safety Data Sheet

Cat. # BTNM-0069

Sodium Hydroxide pellets

Size: 500g





Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 5/11/2017 Version: 1.1

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

1.1. Product identifier

 Product form
 : Substance

 Substance name
 : sodium hydroxide

 EC Index-No.
 : 011-002-00-6

 EC-No.
 : 215-185-5

 CAS-No.
 : 1310-73-2

 Product code
 : S047

Type of product : Pure substance

Formula : NaOH

Synonyms : anhydrous caustic soda / B751 / caustic alkali / caustic flake / caustic flakes / caustic soda /

caustic soda, bead / caustic soda, dry / caustic soda, flake / caustic soda, granular / caustic soda, lye / caustic soda, solid / caustic white / caustic, flaked / hydrate of soda / hydrate of sodium / hydroxide of soda / hydroxide of sodium / LEWIS red devil lye / lye (=sodium hydroxide) / soda lye / soda, caustic / soda, hydrate / sodium hydrate / sodium hydrate lye / sodium hydroxide / sodium hydroxide (Na(OH)) / sodium hydroxide, bead / sodium hydroxide, dry / sodium hydroxide, flake / sodium hydroxide, granular / sodium hydroxide,

pellets / sodium hydroxide, solid / white caustic

Product group : Raw material BIG No : 10037

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Industrial use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Geno Technology, Inc./ G-Biosciences 9800 Page Avenue 63132-1429 Saint Louis - United States T 800-628-7730 - F 314-991-1504

technical@GBiosciences.com - www.GBiosciences.com

1.4. Emergency telephone number

Emergency number : Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111	

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Corrosive to metals, Category 1 H290 H314 Skin corrosion/irritation, Category 1A

Full text of H statements : see section 16

Specific concentration limits:

(0.5 = < C < 2)Eye Irrit. 2, H319 (0.5 = < C < 2)Skin Irrit. 2, H315 (2 = < C < 5)Skin Corr. 1B, H314 (5 =<C < 100) Skin Corr. 1A, H314

Adverse physicochemical, human health and environmental effects

May be corrosive to metals. Causes severe skin burns and eye damage. Harmful to aquatic life.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

CLP Signal word : Danger

Hazard statements (CLP) : H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P234 - Keep only in original packaging.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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. P310 - Immediately call a POISON CENTER or doctor.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P390 - Absorb spillage to prevent material damage.

P405 - Store locked up.

P406 - Store in a corrosion-resistant container with a resistant inner liner.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
sodium hydroxide	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6	100	Met. Corr. 1, H290 Skin Corr. 1A, H314

Specific concentration limits

Specific concentration limits:				
Name	Product identifier	Specific concentration limits		
sodium hydroxide	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6	(0.5 = <c 2)="" 2,="" <="" eye="" h319<br="" irrit.="">(0.5 =<c 2)="" 2,="" <="" h315<br="" irrit.="" skin="">(2 =<c 1b,="" 5)="" <="" corr.="" h314<br="" skin="">(5 =<c 100)="" 1a,="" <="" corr.="" h314<="" skin="" td=""></c></c></c></c>		

Full text of H-statements: see section 16

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3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid.

Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

: Wipe off dry product from skin. Remove clothing before washing. Wash immediately with First-aid measures after skin contact lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents. Do not

remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital

: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present First-aid measures after eye contact

and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an

ophthalmologist.

: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not First-aid measures after ingestion

induce vomiting. Do not give activated charcoal. Do not give chemical antidote. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.htm). Ingestion of large quantities: immediately to hospital. Take the

container/vomit to the doctor/hospital.

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

: WHEN PROCESSED: Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation Symptoms/effects after inhalation of the nasal mucous membranes. ON CONTINUOUS EXPOSURE/CONTACT: Respiratory

difficulties. FOLLOWING SYMPTOMS MAY APPEAR LATER: Possible oedema of the upper respiratory tract. Possible laryngeal spasm/oedema. Risk of lung oedema.

Symptoms/effects after skin contact : Blisters. Caustic burns/corrosion of the skin. Slow-healing wounds.

: Corrosion of the eye tissue. Permanent eye damage. Symptoms/effects after eye contact

Symptoms/effects after ingestion : Dry/sore throat. Nausea. Abdominal pain. Blood in vomit. Difficulty in swallowing. Possible

esophageal perforation. Burns to the gastric/intestinal mucosa. Bleeding of the

gastrointestinal tract. Shock

: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Skin rash/inflammation. Chronic symptoms

Possible inflammation of the respiratory tract. Gastrointestinal complaints.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

: DIRECT FIRE HAZARD: Non combustible. INDIRECT FIRE HAZARD: Reactions involving Fire hazard

a fire hazard: see "Reactivity Hazard".

Explosion hazard : INDIRECT EXPLOSION HAZARD: Reactions with explosion hazards: see "Reactivity

Hazard".

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure Precautionary measures fire

to fire/heat: have neighbourhood close doors and windows.

: Cool tanks/drums with water spray/remove them into safety. When cooling/extinguishing: Firefighting instructions

no water in the substance. Take account of toxic fire-fighting water. Use water moderately

and if possible collect or contain it.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Warning! Product may cause floors to be slippery.

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Face-shield. Corrosion-proof suit. Dust cloud production: compressed air/oxygen

apparatus. Contact with moisture/water: compressed air/oxygen apparatus. Contact with

moisture/water: gas-tight suit.

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Emergency procedures	: Mark the danger area. Prevent dust cloud formation. Corrosion-proof appliances. Keep
	containers closed. Avoid ingress of water in the containers. Wash contaminated clothes.
	On contact with moisture/water: keep upwind. On contact with moisture/water: consider
	evacuation. In case of hazardous reactions: keep upwind. In case of reactivity hazard:

consider evacuation

Measures in case of dust release : In case of dust production: keep upwind. Dust production: have neighbourhood close doors

and windows

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers

6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply.

Dam up the solid spill. Hazardous reaction: measure explosive gas-air mixture. Reaction:

dilute combustible gas/vapour with water curtain.

Methods for cleaning up : Collect the spill only if it is in a dry state. Wetted substance: cover with powdered limestone or dry sand, earth, vermiculities. Scoop solid spill into closing containers. Under controlled

or dry sand, earth, vermiculite. Scoop solid spill into closing containers. Under controlled conditions: neutralize leftovers with dilute acid solution. Possible violent reaction if you neutralize. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and

equipment after handling.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid raising dust. Measure the concentration in the air regularly. Carry operations in the

open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Use corrosionproof equipment. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Avoid

contact of substance with water. Keep container tightly closed.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this

product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in corrosive resistant container with a resistant inner liner. Keep only in original

container. Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible materials : Metals.

Maximal quantity : ambient temperature Storage temperature : ambient temperature

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: combustible materials. oxidizing agents. (strong) acids.

metals. organic materials. water/moisture.

Storage area : Store in a dry area. Keep container in a well-ventilated place. Keep locked up.

Unauthorized persons are not admitted. Store at ambient temperature. Keep only in the

original container. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: hermetical. watertight. corrosion-proof. dry. clean. correctly

labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: stainless steel. nickel. polyethylene. paper. MATERIAL TO AVOID:

lead. aluminium. copper. tin. zinc. bronze. textile.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

sodium hydroxide (1310-73-2)

United Kingdom - Occupational Exposure Limits

WEL STEL (mg/m³) 2 mg/m³

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sodium hydroxide (1310-73-2)		
DNEL/DMEL (Workers)		
Long-term - local effects, inhalation	1 mg/m³	
DNEL/DMEL (General population)		
Long-term - local effects, inhalation	1 mg/m³	
2. Exposure controls		

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Materials for protective clothing:

GIVE GOOD RESISTANCE: natural rubber. neoprene. nitrile rubber. GIVE LESS RESISTANCE: butyl rubber. polyethylene. PVA. GIVE POOR RESISTANCE: natural fibres

Hand protection:

Gloves

Eye protection:

Face shield. In case of dust production: protective goggles

Skin and body protection:

Corrosion-proof clothing. In case of dust production: head/neck protection

Respiratory protection:

Dust production: dust mask with filter type P3. High dust production: self-contained breathing apparatus

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid. Crystalline powder. Little spheres. Lumps. Needles. Scales. Flakes.

Molecular mass : 40 g/mol
Colour : White.
Odour : Odourless.
Odour threshold : No data available
pH : 14 (5 %)

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 323 °C
Freezing point : Not applicable

Boiling point : 1388 $^{\circ}$ C (1013.25 hPa)

Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature : No data available Flammability (solid, gas) : Non flammable. Vapour pressure : < 0.1 hPa (20 °C) Relative vapour density at 20 °C : No data available Relative density : 2.13 (20 °C) : 2130 kg/m³ Density

Solubility : Exothermically soluble in water. Soluble in ethanol. Soluble in methanol. Soluble in

glycerol.

Water: 100 g/100ml (25 °C)

Ethanol: soluble

Log Pow : No data available

Viscosity, kinematic : 0.53 mm²/s (25 °C, 1 mol/l)

Viscosity, dynamic : 0.997 mPa·s (25 °C, Test data, 0.5 mol/l)

Explosive properties : No data available
Oxidising properties : No data available

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Explosive limits : Not applicable

9.2. Other information

Saturation concentration : 671 g/m³

VOC content : Not applicable (inorganic)

Other properties : Translucent. Hygroscopic. Basic reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

May be corrosive to metals. Absorbs the atmospheric CO2. Violent to explosive reaction with (some) acids. Reacts violently with many compounds: heat release resulting in increased fire or explosion risk. Violent exothermic reaction with water (moisture): release of corrosive mist. Reacts exothermically on exposure to water (moisture) with combustible materials: risk of spontaneous ignition.

10.2. Chemical stability

Hygroscopic. Unstable on exposure to air.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

metals.

10.6. Hazardous decomposition products

Hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 14 (5 %)

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: 14 (5 %)

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

sodium hydroxide (1310-73-2)

Viscosity, kinematic 0.53 mm²/s (25 °C, 1 mol/l)

Potential adverse human health effects and : Causes severe skin burns. Causes serious eye damage.

symptoms

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified as dangerous for the environment according to the criteria of Regulation (EC)

No 1272/2008.

Ecology - air : Not included in the list of substances which may contribute to the greenhouse effect

(IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No

1005/2009).

Ecology - water : Harmful to crustacea. Harmful to fishes. Groundwater pollutant. pH shift.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

sodium	hydroxide ((1310-73-2)

LC50 fish 1

45.4 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Solution >=50%)

EC50 Daphnia 1

40.4 mg/l (48 h, Ceriodaphnia sp., Experimental value, Nominal concentration)

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according to Regulation (EC) No. 1907/2006 (REACH) with its a	menument Regulation (EU) 2015/650			
2.2. Persistence and degradability				
sodium hydroxide (1310-73-2)				
Persistence and degradability	Biodegradability: not applicable.			
Chemical oxygen demand (COD)	Not applicable (inorganic)			
ThOD	Not applicable (inorganic)			
12.3. Bioaccumulative potential	12.3. Bioaccumulative potential			
sodium hydroxide (1310-73-2)				
Bioaccumulative potential Not bioaccumulative.				
12.4. Mobility in soil				
sodium hydroxide (1310-73-2)				
Ecology - soil No (test)data on mobility of the substance available.				
12.5. Results of PBT and vPvB assessment				
sodium hydroxide (1310-73-2)				
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII				
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII				

SECTION 13: Disposal considerations

12 1	Waste	troatm	ont mo	thode

12.6. Other adverse effectsNo additional information available

Waste treatment methods : Waste treatment methods.

Product/Packaging disposal recommendations : Do not discharge into drains or the environment. Remove waste in accordance with local

and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Should not be landfilled with household waste. Recycle/reuse. Dilute. Neutralize.

Additional information : Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No

1357/2014 and Regulation (EU) No 2017/997.

European List of Waste (LoW) code : 15 01 10* - packaging containing residues of or contaminated by dangerous substances

06 02 04* - sodium and potassium hydroxide

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No. (ADR)	: UN 1823
UN-No. (IMDG)	: UN 1823
UN-No. (IATA)	: UN 1823
UN-No. (ADN)	: UN 1823
UN-No. (RID)	: UN 1823
14.2. UN proper shipping name	

Proper Shipping Name (ADR) : Sodium hydroxide, solid
Proper Shipping Name (IMDG) : sodium hydroxide, solid
Proper Shipping Name (IATA) : Sodium hydroxide, solid
Proper Shipping Name (ADN) : Sodium hydroxide, solid
Proper Shipping Name (RID) : Sodium hydroxide, solid

Transport document description (ADR)

: UN 1823 Sodium hydroxide, solid, 8, II, (E)

Transport document description (IMDG)

: UN 1823 sodium hydroxide, solid, 8, II

Transport document description (IATA)

: UN 1823 Sodium hydroxide, solid, 8, II

Transport document description (ADN)

: UN 1823 Sodium hydroxide, solid, 8, II

Transport document description (RID)

: UN 1823 Sodium hydroxide, solid, 8, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8

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IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8



ADN

Transport hazard class(es) (ADN) : 8
Danger labels (ADN) : 8



RID

Transport hazard class(es) (RID) : 8
Danger labels (RID) : 8



14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Transport regulations (ADR) : Subject
Classification code (ADR) : C6
Hazard identification number (Kemler No.) : 80

Orange plates



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Tunnel restriction code (ADR) : E EAC code : 2W

Transport by sea

Transport regulations (IMDG) : Subject EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-B

Air transport

Transport regulations (IATA) : Subject to the provisions

Inland waterway transport

Classification code (ADN) : C6
Carriage permitted (ADN) : T

Rail transport

Transport regulations (RID) : Subject Classification code (RID) : C6

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

sodium hydroxide is not on the REACH Candidate List

sodium hydroxide is not on the REACH Annex XIV List

sodium hydroxide is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

sodium hydroxide is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

VOC content : Not applicable (inorganic)

15.1.2. National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Met. Corr. 1	Corrosive to metals, Category 1	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
H290	May be corrosive to metals.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	

Safety Data Sheet applicable for regions : GB - United Kingdom

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 5/11/2017 Version: 1.1

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

1.1. Product identifier

 Product form
 : Substance

 Substance name
 : sodium hydroxide

 EC Index-No.
 : 011-002-00-6

 EC-No.
 : 215-185-5

 CAS-No.
 : 1310-73-2

 Product code
 : S047

Type of product : Pure substance

Formula : NaOH

Synonyms : anhydrous caustic soda / B751 / caustic alkali / caustic flake / caustic flakes / caustic soda /

caustic soda, bead / caustic soda, dry / caustic soda, flake / caustic soda, granular / caustic soda, lye / caustic soda, solid / caustic white / caustic, flaked / hydrate of soda / hydrate of sodium / hydroxide of soda / hydroxide of sodium / LEWIS red devil lye / lye (=sodium hydroxide) / soda lye / soda, caustic / soda, hydrate / sodium hydrate / sodium hydrate lye / sodium hydroxide / sodium hydroxide (Na(OH)) / sodium hydroxide, bead / sodium hydroxide, dry / sodium hydroxide, flake / sodium hydroxide, granular / sodium hydroxide,

pellets / sodium hydroxide, solid / white caustic

Product group : Raw material BIG No : 10037

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Industrial use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Geno Technology, Inc./ G-Biosciences 9800 Page Avenue 63132-1429 Saint Louis - United States T 800-628-7730 - F 314-991-1504

technical@GBiosciences.com - www.GBiosciences.com

1.4. Emergency telephone number

Emergency number : Chemtrec 1-800-424-9300 (USA/Canada), +1-703-527-3887 (Intl)

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111	

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Corrosive to metals, Category 1 H290 H314 Skin corrosion/irritation, Category 1A

Full text of H statements : see section 16

Specific concentration limits:

(0.5 = < C < 2)Eye Irrit. 2, H319 (0.5 = < C < 2)Skin Irrit. 2, H315 (2 = < C < 5)Skin Corr. 1B, H314 (5 =<C < 100) Skin Corr. 1A, H314

Adverse physicochemical, human health and environmental effects

May be corrosive to metals. Causes severe skin burns and eye damage. Harmful to aquatic life.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

CLP Signal word : Danger

Hazard statements (CLP) : H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) : P234 - Keep only in original packaging.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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. P310 - Immediately call a POISON CENTER or doctor.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P390 - Absorb spillage to prevent material damage.

P405 - Store locked up.

P406 - Store in a corrosion-resistant container with a resistant inner liner.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
sodium hydroxide	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6	100	Met. Corr. 1, H290 Skin Corr. 1A, H314

Specific concentration limits

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
sodium hydroxide	(CAS-No.) 1310-73-2 (EC-No.) 215-185-5 (EC Index-No.) 011-002-00-6	(0.5 = <c 2)="" 2,="" <="" eye="" h319<br="" irrit.="">(0.5 =<c 2)="" 2,="" <="" h315<br="" irrit.="" skin="">(2 =<c 1b,="" 5)="" <="" corr.="" h314<br="" skin="">(5 =<c 100)="" 1a,="" <="" corr.="" h314<="" skin="" td=""></c></c></c></c>

Full text of H-statements: see section 16

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3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid.

Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation : Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

: Wipe off dry product from skin. Remove clothing before washing. Wash immediately with First-aid measures after skin contact lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents. Do not

remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital

: Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present First-aid measures after eye contact

and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an

ophthalmologist.

: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not First-aid measures after ingestion

induce vomiting. Do not give activated charcoal. Do not give chemical antidote. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.htm). Ingestion of large quantities: immediately to hospital. Take the

container/vomit to the doctor/hospital.

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

: WHEN PROCESSED: Dry/sore throat. Coughing. Irritation of the respiratory tract. Irritation Symptoms/effects after inhalation of the nasal mucous membranes. ON CONTINUOUS EXPOSURE/CONTACT: Respiratory

difficulties. FOLLOWING SYMPTOMS MAY APPEAR LATER: Possible oedema of the upper respiratory tract. Possible laryngeal spasm/oedema. Risk of lung oedema.

Symptoms/effects after skin contact : Blisters. Caustic burns/corrosion of the skin. Slow-healing wounds.

: Corrosion of the eye tissue. Permanent eye damage. Symptoms/effects after eye contact

Symptoms/effects after ingestion : Dry/sore throat. Nausea. Abdominal pain. Blood in vomit. Difficulty in swallowing. Possible

esophageal perforation. Burns to the gastric/intestinal mucosa. Bleeding of the

gastrointestinal tract. Shock

: ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Skin rash/inflammation. Chronic symptoms

Possible inflammation of the respiratory tract. Gastrointestinal complaints.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

: DIRECT FIRE HAZARD: Non combustible. INDIRECT FIRE HAZARD: Reactions involving Fire hazard

a fire hazard: see "Reactivity Hazard".

Explosion hazard : INDIRECT EXPLOSION HAZARD: Reactions with explosion hazards: see "Reactivity

Hazard".

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure Precautionary measures fire

to fire/heat: have neighbourhood close doors and windows.

: Cool tanks/drums with water spray/remove them into safety. When cooling/extinguishing: Firefighting instructions

no water in the substance. Take account of toxic fire-fighting water. Use water moderately

and if possible collect or contain it.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Warning! Product may cause floors to be slippery.

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Face-shield. Corrosion-proof suit. Dust cloud production: compressed air/oxygen

apparatus. Contact with moisture/water: compressed air/oxygen apparatus. Contact with

moisture/water: gas-tight suit.

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Emergency procedures	: Mark the danger area. Prevent dust cloud formation. Corrosion-proof appliances. Keep
	containers closed. Avoid ingress of water in the containers. Wash contaminated clothes.
	On contact with moisture/water: keep upwind. On contact with moisture/water: consider
	evacuation. In case of hazardous reactions: keep upwind. In case of reactivity hazard:

consider evacuation

Measures in case of dust release : In case of dust production: keep upwind. Dust production: have neighbourhood close doors

and windows

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent soil and water pollution. Prevent spreading in sewers

6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply.

Dam up the solid spill. Hazardous reaction: measure explosive gas-air mixture. Reaction:

dilute combustible gas/vapour with water curtain.

Methods for cleaning up : Collect the spill only if it is in a dry state. Wetted substance: cover with powdered limestone or dry sand, earth, vermiculities. Scoop solid spill into closing containers. Under controlled

or dry sand, earth, vermiculite. Scoop solid spill into closing containers. Under controlled conditions: neutralize leftovers with dilute acid solution. Possible violent reaction if you neutralize. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and

equipment after handling.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid raising dust. Measure the concentration in the air regularly. Carry operations in the

open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Keep the substance free from contamination. Use corrosionproof equipment. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Avoid

contact of substance with water. Keep container tightly closed.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this

product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in corrosive resistant container with a resistant inner liner. Keep only in original

container. Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible materials : Metals.

Maximal quantity : ambient temperature Storage temperature : ambient temperature

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: combustible materials. oxidizing agents. (strong) acids.

metals. organic materials. water/moisture.

Storage area : Store in a dry area. Keep container in a well-ventilated place. Keep locked up.

Unauthorized persons are not admitted. Store at ambient temperature. Keep only in the

original container. Meet the legal requirements.

Special rules on packaging : SPECIAL REQUIREMENTS: hermetical. watertight. corrosion-proof. dry. clean. correctly

labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: stainless steel. nickel. polyethylene. paper. MATERIAL TO AVOID:

lead. aluminium. copper. tin. zinc. bronze. textile.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

sodium hydroxide (1310-73-2)

United Kingdom - Occupational Exposure Limits

WEL STEL (mg/m³) 2 mg/m³

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sodium hydroxide (1310-73-2)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	1 mg/m³
DNEL/DMEL (General population)	
Long-term - local effects, inhalation	1 mg/m³
8.2 Exposure controls	

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Materials for protective clothing:

GIVE GOOD RESISTANCE: natural rubber. neoprene. nitrile rubber. GIVE LESS RESISTANCE: butyl rubber. polyethylene. PVA. GIVE POOR RESISTANCE: natural fibres

Hand protection:

Gloves

Eye protection:

Face shield. In case of dust production: protective goggles

Skin and body protection:

Corrosion-proof clothing. In case of dust production: head/neck protection

Respiratory protection:

Dust production: dust mask with filter type P3. High dust production: self-contained breathing apparatus

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid. Crystalline powder. Little spheres. Lumps. Needles. Scales. Flakes.

Molecular mass : 40 g/mol
Colour : White.
Odour : Odourless.
Odour threshold : No data available
pH : 14 (5 %)

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 323 °C
Freezing point : Not applicable

Boiling point : 1388 $^{\circ}$ C (1013.25 hPa)

Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature : No data available Flammability (solid, gas) : Non flammable. Vapour pressure : < 0.1 hPa (20 °C) Relative vapour density at 20 °C : No data available Relative density : 2.13 (20 °C) : 2130 kg/m³ Density

Solubility : Exothermically soluble in water. Soluble in ethanol. Soluble in methanol. Soluble in

glycerol.

Water: 100 g/100ml (25 °C)

Ethanol: soluble

Log Pow : No data available

Viscosity, kinematic : 0.53 mm²/s (25 °C, 1 mol/l)

Viscosity, dynamic : 0.997 mPa·s (25 °C, Test data, 0.5 mol/l)

Explosive properties : No data available
Oxidising properties : No data available

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Explosive limits : Not applicable

9.2. Other information

Saturation concentration : 671 g/m³

VOC content : Not applicable (inorganic)

Other properties : Translucent. Hygroscopic. Basic reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

May be corrosive to metals. Absorbs the atmospheric CO2. Violent to explosive reaction with (some) acids. Reacts violently with many compounds: heat release resulting in increased fire or explosion risk. Violent exothermic reaction with water (moisture): release of corrosive mist. Reacts exothermically on exposure to water (moisture) with combustible materials: risk of spontaneous ignition.

10.2. Chemical stability

Hygroscopic. Unstable on exposure to air.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

metals.

10.6. Hazardous decomposition products

Hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 14 (5 %)

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: 14 (5 %)

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

sodium hydroxide (1310-73-2)

Viscosity, kinematic 0.53 mm²/s (25 °C, 1 mol/l)

Potential adverse human health effects and : Causes severe skin burns. Causes serious eye damage.

symptoms

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Not classified as dangerous for the environment according to the criteria of Regulation (EC)

No 1272/2008.

Ecology - air : Not included in the list of substances which may contribute to the greenhouse effect

(IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No

1005/2009).

Ecology - water : Harmful to crustacea. Harmful to fishes. Groundwater pollutant. pH shift.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

		sodium	hydroxide ((1310-73-2)
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LC50 fish 1

45.4 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Solution >=50%)

EC50 Daphnia 1

40.4 mg/l (48 h, Ceriodaphnia sp., Experimental value, Nominal concentration)

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according to Regulation (EC) No. 1907/2000 (REACH) with its amendment Regulation (ED) 2013/030		
12.2. Persistence and degradability		
sodium hydroxide (1310-73-2)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
12.3. Bioaccumulative potential		
sodium hydroxide (1310-73-2)		
Bioaccumulative potential Not bioaccumulative.		
12.4. Mobility in soil		
sodium hydroxide (1310-73-2)		
Ecology - soil	No (test)data on mobility of the substance available.	
12.5. Results of PBT and vPvB assessment		
sodium hydroxide (1310-73-2)		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
sodium hydroxide (1310-73-2) Ecology - soil No (test)data on mobility of the substance available. 12.5. Results of PBT and vPvB assessment sodium hydroxide (1310-73-2) This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		

No additional information available

12.6. Other adverse effects

SECTION 13: Disposal considerations

	13 1	1 Waste	treatment	methods	
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Waste treatment methods : Waste treatment methods.

Product/Packaging disposal recommendations

: Do not discharge into drains or the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Should not be landfilled with household waste. Recycle/reuse. Dilute. Neutralize.

Additional information

: Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

European List of Waste (LoW) code

: 15 01 10* - packaging containing residues of or contaminated by dangerous substances 06 02 04* - sodium and potassium hydroxide

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No. (ADR)	: UN 1823
UN-No. (IMDG)	: UN 1823
UN-No. (IATA)	: UN 1823
UN-No. (ADN)	: UN 1823
UN-No. (RID)	: UN 1823

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Sodium hydroxide, solid
Proper Shipping Name (IMDG) : sodium hydroxide, solid
Proper Shipping Name (IATA) : Sodium hydroxide, solid
Proper Shipping Name (ADN) : Sodium hydroxide, solid
Proper Shipping Name (RID) : Sodium hydroxide, solid

Transport document description (ADR)

: UN 1823 Sodium hydroxide, solid, 8, II, (E)

Transport document description (IMDG)

: UN 1823 sodium hydroxide, solid, 8, II

Transport document description (IATA)

: UN 1823 Sodium hydroxide, solid, 8, II

Transport document description (ADN)

: UN 1823 Sodium hydroxide, solid, 8, II

Transport document description (RID)

: UN 1823 Sodium hydroxide, solid, 8, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 8
Danger labels (ADR) : 8

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IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8



ADN

Transport hazard class(es) (ADN) : 8
Danger labels (ADN) : 8



RID

Transport hazard class(es) (RID) : 8
Danger labels (RID) : 8



14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

Overland transport

Transport regulations (ADR) : Subject
Classification code (ADR) : C6
Hazard identification number (Kemler No.) : 80

Orange plates



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Tunnel restriction code (ADR) : E EAC code : 2W

Transport by sea

Transport regulations (IMDG) : Subject EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-B

Air transport

Transport regulations (IATA) : Subject to the provisions

Inland waterway transport

Classification code (ADN) : C6
Carriage permitted (ADN) : T

Rail transport

Transport regulations (RID) : Subject Classification code (RID) : C6

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

sodium hydroxide is not on the REACH Candidate List

sodium hydroxide is not on the REACH Annex XIV List

sodium hydroxide is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

sodium hydroxide is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

VOC content : Not applicable (inorganic)

15.1.2. National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

Safety Data Sheet applicable for regions : GB - United Kingdom

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.