Scientific Laboratory Supplies - Safety Data Sheet

CHE3416

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.0 Revision date: Date printed:

09 November 2018 16 June 2020

Section 1. Identification

1.1 Product Identifier CHE3416

Product Name SODIUM HYDROXIDE PELLETS A.R. 500g.

CAS Number 1310-73-2

REACH Registration No 01-2119457892-27-XXXX

Molecular Formula NaOH =40.00

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Scientific Laboratory Supplies



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Nottingham NG11 7EP

UNITED KINGDOM

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(24hr) 112

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Corrosive to metals, category 1 (Met. Corr. 1). Skin corrosion/irritation, category 1A (Skin Corr. 1A).

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



Hazard Statements Causes severe skin burns and eye damage. May be corrosive to metals.

Precautionary Statements

Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

Section 3. Composition

3.1 Substances

Component	CAS No. EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Sodium hydroxide	1310-73-2 215-185-5	01-2119457892-27-XXXX	>97%	Met. Corr. 1,Skin Corr. 1A

Section 4. First Aid

4.1 Description of first aid measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL Eyes

ATTENTION URGENTLY.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If

irritation persists or there is any sign of skin damage, seek IMMEDIATE MEDICAL ASSISTANCE

Inhalation Remove from exposure.

If conscious give plenty of water to drink. Do not induce vomiting. OBTAIN MEDICAL ATTENTION Ingestion

URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

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

No further relevant information available.

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

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Do not allow water to come into direct contact with material.

5.2 Special hazards arising from the substance or mixture

Hazards Non combustible but contact with moisture or water may generate sufficient heat to ignite combustible materials.

Contact with some metals will liberate extremely flammable hydrogen gas.

5.3 Advice for firefighters

Advice for firefighters Consider all other materials in the vicinity.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Avoid breathing dust. Use approved personal protective equipment. Evacuate area immediately. Do not allow

other people to enter area. Do not allow general use of area until it is safe to do so.

6.2 Environmental precautions

Keep non-neutralised material out of sewers, storm drains, surface waters and soil. Notify the Environmental Enviromental

Agency and local Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Contain spill with inert material. Neutralise with 5M hydrochloric acid. Wash area down with copious amounts of

Minor Spillage Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place protected against moisture and water. Keep well separated from acids, metals, explosives, organic peroxides and ignitable materials.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits				
			Long Term (8hr TWA)		Short Term 15min period)		
Sodium hydroxide	1310-73-2	>97%	-	-	-	2.0 mg/m-3	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hand Protection Use nitrile gloves or PVC gauntlets.

Eye Protection Use chemical full face shield.

Skin Protection If skin contact or contamination of clothing is likely, protective clothing must be worn. Wear PVC oversuit.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance White hygroscopic pellets.

Odour Odourless.

pH 14 @ 20°C solution.

Boiling Point 1390°C

Melting Point 318°C

Flash Point Not applicable
Upper Flammable Limit
Lower Flammable Limit Not applicable
Auto Ignition Not applicable

Explosive Properties No. Oxidising Properties No.

Vapour Pressure 1mmHg @ 739°C

Relative Density 2.1300

Water Solubility Completely soluble in water but reacts vigorously with much evolution of heat and fumes.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid No specific conditions.

Acids. Warm ammoniacal silver nitrate. Nitrobenzene. Sodium tetrahydroborate. Reacts with aluminium and zinc

to produce extremely flammable hydrogen gas. Bromine. Chloroform and methanol.

10.6 Hazardous Decomposition None unusual.

10.5 Incompatable Materials

Section 11. Toxicological Information

11.1 Information on toxicological effects

The solid and solutions will cause severe burns. Damage can range from severe irritation and corneal scarring to Eyes

permanent blindness.

Skin Contact with the solid or solution will not lead to immediate pain but damage begins at once. Severe ulceration

and scarring may occur in serious cases.

LD50 Skin Not available

Ingestion Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus.

LD50 Oral Not available

Inhalation Prolonged exposure to dust or fume concentrations above the occupational exposure limits will produce severe

irritation of the eyes, nose, throat and respiratory tract.

LD50 Inhalation Not available **TCLo** Not available

Has been implicated as a possible cause of cancer of the oesophagus after very prolonged exposure. Carcinogenicity

Carcinogenesis in these cases may be due to tissue destruction and scar formation.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Other Information The irritant effect provides warning that control of exposure is needed.

Section 12. Ecological

12.1 Toxicity Small amounts present no specific environmental hazard. Neutralised material presents no specific environmental

hazard.

No data available.

LC50 Algal Not available LC50 Crustacea Not available LC50 Fish Not available

12.2 Persistence and No data available. degradability

12.3 Bioaccumulative potential No data available. 12.4 Mobility in soil

Results of PBT & vPvB Assessment not required.

assessment

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Dilute in a large excess of water and carefully neutralise with an acid, then wash to drain with copious amounts of

water

Contaminated Packaging Very carefully wash out containers with water. Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number 1823

14.2 Proper Shipping Name Sodium hydroxide, solid

14.3 Transport classes

UN classification 8
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 80
Tunnel Restriction Code E

14.4 Packing Group II

14.4 Packing Group

14.5 Environment hazards See section 12.

14.6 Special precautions for user

14.7 Transport in bulk Not transported in bulk.



Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

No special precautions required.

Classification Corrosive to metals, category 1; Skin corrosion/irritation, category 1A

Signal word Danger

Hazard Pictograms



Hazard Statements H314, H290

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

Precautionary Statements P280, P264, P363, P301+P330+P331, P303+P361+P353, P305+P351+P338

Wear protective gloves / protective clothing / eye protection. Wash thoroughly after handling. Wash contaminated clothing before reuse. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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