ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier		
Product Name	Sodium Hydroxide Solution	
Chemical Formula	NaOH	
Product code	GPC9033	
CAS No.	Not applicable.	
EC No.	Not applicable.	
REACH Registration No.	Not known.	
1.2 Relevant identified uses of the substance or mixture and uses advised against		
Identified Use(s)	PC21 Laboratory chemicals	
Uses Advised Against	Not known.	
1.3 Details of the supplier of the safety data sheet		
Manufacturer		
Company Identification		
Address of Manufacturer		

Select School Supplies The Old Granary Berghill House Oswestry SY11 4PD 01691 770366 sales@selectschoolsupplies.co.uk



Emergency Phone No.	Dudley Road, Birmingham, United Kingdom +00 448 706 006 266 NHS Direct - 0845 4647 or 111
2. SECTION 2: HAZARDS IDENTIFICA	TION
2.1 Classification of the substance or m	
Regulation (EC) No. 1272/2008 (CLP)	Met. Corr. 1 :May be corrosive to metals. Skin Corr. 1A :Causes severe skin burns and eye damage.
	okin oon. IA loadoos sovere skin burns and eye damage.
2.2 Label elements	
	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name	Sodium Hydroxide Solution
Hazard Pictogram(s)	
	GHS05
Signal Word(s)	Danger
Hazard Statement(s)	H290: May be corrosive to metals.
	H314: Causes severe skin burns and eye damage.
	60 percent of the mixture consists of ingredient(s) of unknown acute toxicity
Precautionary Statement(s)	P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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/doctor.
2.3 Other hazards	
	None known.
2.4 Additional Information	For full text of H/P Statements see section 16.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

HAZARDOUS	CAS No.	EC No. / REACH	%W/W	Hazard Statement(s)	Hazard
INGREDIENT(S)		Registration No.			Pictogram(s)
sodium hydroxide caustic	1310-73-2	215-185-5	>40	Skin Corr. 1A H314	GHS05
soda					

4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures		
Inhalation	Immediately call a POISON CENTER/doctor.	
Skin Contact	Take off immediately all contaminated clothing. Rinse skin with water. Wash	
	contaminated clothing before reuse. Immediately call a POISON CENTER/doctor.	
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present	
	and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.	
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON	
	CENTER/doctor.	
4.2 Most important symptoms and effect	ts, both acute and delayed	
	Causes burns.	
4.3 Indication of any immediate medical attention and special treatment needed		
	Specific treatment (see Medical Advice on this label). Immediately call a POISON	
	CENTER/doctor. Treat symptomatically.	

5. SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media		
Suitable Extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	
Unsuitable extinguishing media	None.	
5.2 Special hazards arising from the sub	stance or mixture	
	May decompose in a fire, giving off toxic and irritant vapours.	
5.3 Advice for firefighters		
	As appropriate for surrounding fire.	
6. SECTION 6: ACCIDENTAL RELEASE MEASURES		

6.1 Personal precautions, protective equipment and emergency procedures

	Provide adequate ventilation. Do not use metal containers for spilled liquid. Wear	
	appropriate personal protective equipment, avoid direct contact.	
6.2 Environmental precautions		
	This material and its container must be disposed of in a safe way.	
6.3 Methods and material for containment and cleaning up		
	Adsorb spillages onto sand, earth or any suitable adsorbent material. Use vacuum	
	equipment for collecting spilt materials, where practicable.	
6.4 Reference to other sections		
	See Also Section 8, 13.	
SECTION 7: HANDLING AND STOR	AGE	

7.1 Precautions for safe handling	
	Wash hands and exposed skin thoroughly after handling. Wear protective
	gloves/protective clothing/eye protection/face protection/hearing protection. Keep
	only in original packaging.
7.2 Conditions for safe storage, includin	g any incompatibilities
	Store locked up. Store in a corrosion-resistant container with a resistant inner liner.
Storage temperature	Ambient.
Storage life	Stable under normal conditions.
Incompatible materials	None known.
7.3 Specific end use(s)	
	PC21 Laboratory chemicals

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Sodium hydroxide	1310-73-2				2	

Region	Source
Europe	EU Occupational Exposure Limits
United Kingdom	Workplace Exposure Limits (WEL)

Remark

8.2 Exposure controls

Notes

8.2.1. Appropriate engineering controls Provide adequate ventilation, including appropriate local extraction. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment

Eye Protection	Wear eye protection with side protection (EN166).
Skin protection	Wear protective clothing and gloves: Impervious gloves (EN 374).
Respiratory protection	Normally no personal respiratory protection is necessary.
Thermal hazards	None known.

8.2.3. Environmental Exposure Controls Avoid release to the environment.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

	• •
Appearance	Liquid.
	Colour : Not known.
Odour	Not known.
Odour threshold	Not known.
рН	Not known.
Melting point/freezing point	-12 - 10 °C
Initial boiling point and boiling range	105 - 140 °C
Flash Point	Not known.
Evaporation rate	Not known.
Flammability (solid, gas)	Not known.
Upper/lower flammability or explosive	Not known.
limits	
Vapour pressure	< 24 hPa at 20 °C
Vapour density	1.38 - (Air = 1.0)
Density (g/ml)	Not known.
Relative density	1.327 g/cm3 at 25 °C
Solubility(ies)	Solubility (Water) : completely miscible, soluble
	Solubility (Other) : Not known.
Partition coefficient: n-octanol/water	Not known.
Auto-ignition temperature	Not known.
Decomposition Temperature (°C)	Not known.
Viscosity	Not known.
Explosive properties	Not known.
Oxidising properties	Not known.

9.2 Other information

None.

10. SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	
	None anticipated.
10.2 Chemical Stability	
	Stable under normal conditions.
10.3 Possibility of hazardous reactions	
	No hazardous reactions known if used for its intended purpose.
10.4 Conditions to avoid	
	Incompatible materials
10.5 Incompatible materials	
	Water, acids, Organic materials, Chlorinated solvents, Aluminum, Phosphorus,
	Tin/tin oxides, ZincWater,
	acids, Organic materials, Chlorinated solvents, Aluminum, Phosphorus, Tin/tin
	oxides, Zinc
10.6 Hazardous decomposition products	
	No hazardous decomposition products known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	
	No data
Acute toxicity - Skin Contact	
	No data
Acute toxicity - Inhalation	
	No data
Skin corrosion/irritation	Causes severe skin burns and eye damage.
	Skin - Rabbit (Sodium hydroxide)
	Result: Causes severe burns 24 h
Serious eye damage/irritation	
	Eyes - Rabbit (Sodium hydroxide)
	Result: Corrosive - 24 h
Skin sensitization data	
	Will not occur (Sodium hydroxide)
Respiratory sensitization data	
	Will not occur (Sodium hydroxide)

Germ cell mutagenicity	
	No data
Carcinogenicity	
	IARC: No component of this product present at levels greater than or equal to 0.1% is
	identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	
	No data
Lactation	No data
STOT - single exposure	
	No data
STOT - repeated exposure	
	No data
Aspiration hazard	
	No data
11.2 Other information	
	Not known.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates	Immobilization EC50 - Daphnia (water flea) - 40.38 mg/l - 48 h (Sodium
	hydroxide)
Toxicity - Fish	LC50 - Gambusia affinis (Mosquito fish) - 125 mg/l - 96 h (Sodium hydroxide)
	LC50 - Oncorhynchus mykiss (rainbow trout) - 45.4 mg/l - 96 h (Sodium
	hydroxide)
Toxicity - Algae	No data
Toxicity - Sediment Compartment	No data
Toxicity - Terrestrial Compartment	No data
12.2 Persistence and Degradation	
	No data
12.3 Bioaccumulative potential	
	No data
12.4 Mobility in soil	
	No data
12.5 Results of PBT and vPvB assess	nent
	This substance/mixture contains no components considered to be either persistent,
	bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative
	(vPvB) at levels of 0.1% or higher.
12.6 Other adverse effects	

Not known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator. 13.2 Additional Information Disposal should be in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

14.1 UN number	
UN No.	1823
14.2 UN proper shipping name	
UN proper shipping name	SODIUM HYDROXIDE, SOLID
14.3 Transport hazard class(es)	
ADR/RID	
ADR/RID Class	8
ADR Classification Code	C6
Special Provisions	Not applicable
Limited Quantities	1 kg
Excepted Quantities	E2
Emergency Action Code	Not applicable
Mixed Packing Instructions for Packages	P002 IBC08
Special Packing Provisions for Packages	B4
Mixed Packing Instructions for Packages	MP10
Packing Instructions for Portable Tanks	Т3
Special Provisions for Portable Tanks	TP33
Tank Code for Tanks	SGAN
Special Provisions for Tanks	Not applicable
Vehicle for Tank Carriage	AT
ADR Transport Category	2
Tunnel Restriction Code	E
Special Provisions for Carriage -	V11
Packages	
Special Provisions for Carriage - Bulk	Not applicable
Special Provisions for Carriage - Loading	, Not applicable
Unloading and Handling	
Special Provisions for Carriage -	Not applicable
Operation	
ADR HIN	80
IMDG	
IMDG Class	8

Special Provisions	Not applicable
Limited Quantities	1 kg
Excepted Quantities	E2
Mixed Packing Instructions for Packages	P002 IBC08
Special Packing Provisions for Packages	B4
Packing Instructions for Portable Tanks	ТЗ
Special Provisions for Portable Tanks	TP33
IMDG EMS	F-A, S-B
Stowage and Handling	А
Segregation	SG35
ICAO/IATA	
Excepted Quantities	Not applicable
Passenger and Cargo Aircraft Limited	Not applicable
Quantities Packing Instructions	
Passenger and Cargo Aircraft Limited	Not applicable
Quantities Max net Qty	
Passenger and Cargo Aircraft Packing	Not applicable
Instructions	
Passenger and Cargo Aircraft Max net	Not applicable
Qty	
Cargo Aircraft Packing Instructions	Not applicable
Cargo Aircraft Max net Qty	Not applicable
Special Provisions	Not applicable
Emergency Response Guidebook (ERG)	Not applicable
Code	
Labels	
Labels	8



14.4 Packing group

Packing group

14.5 Environmental hazards

14.6 Special precautions for user Special precautions for user

Environmental hazards

Not classified as a Marine Pollutant.

Not known.

II

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

No information available

15. SECTION 15: REGULATORY INFORMATION

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

European Regulations - Authorisations and/or Restrictions On Use Candidate List of Substances of Very Not listed

High Concern for Authorisation	
REACH: ANNEX XIV list of substances	Not listed
subject to authorisation	
REACH: Annex XVII Restrictions on the	Not listed
manufacture, placing on the market and	
use of certain dangerous substances,	
mixtures and articles	
Community Rolling Action Plan (CoRAP)	Not listed
Regulation (EC) N° 850/2004 of the	Not listed
European Parliament and of the Council	
on persistent organic pollutants	
Regulation (EC) N° 2037/2000 on	Not listed
substances that deplete the ozone layer	
Regulation (EU) N° 649/2012 of the	Not listed
European Parliament and of the Council	
concerning the export and import of	
hazardous chemicals	
National regulations	
Other	Not known.
15.2 Chemical Safety Assessment	
	A REACH chemical safety assessment has not been carried out.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Hazard Pictogram(s)



Hazard classification	Skin Corr. 1A : Skin corrosion/irritation, Category 1A
Hazard Statement(s)	H290: May be corrosive to metals.
	H314: Causes severe skin burns and eye damage.
Precautionary Statement(s)	P234: Keep only in original packaging.
	P260: Do not breathe dust/fume/gas/mist/vapours/spray.
	P264: Wash hands and exposed skin thoroughly after handling.

	P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing 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. 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/doctor.
	P321: Specific treatment (see Medical Advice on this label).
	P363: Wash contaminated clothing before reuse.
	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 in accordance with local, state or national legislation.
Passenger aircraft/rail	ADN : European Agreement concerning the International Carriage of Dangerous
	Goods by Inland Waterways
	ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
	CAS : Chemical Abstracts Service
	CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of
	substances and mixtures
	DNEL : Derived No Effect Level
	EC : European Community
	EINECS : European Inventory of Existing Commercial Chemical Substances
	IATA : International Air Transport Association
	IBC : Intermediate Bulk Container
	ICAO : International Civil Aviation Organization
	IMDG : International Maritime Dangerous Goods
	LTEL : Long term exposure limit
	PBT : Persistent, Bioaccumulative and Toxic
	PNEC : Predicted No Effect Concentration
	REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals
	RID : Regulations concerning the International Carriage of Dangerous Goods by Rail
	STEL : Short term exposure limit
	STOT : Specific Target Organ Toxicity
	UN : United Nations
	vPvB : very Persistent and very Bioaccumulative
Disclaimers	Information contained in this publication or as otherwise supplied to Users is believed
Lisolamors	

Page: 11 - 12

to be accurate and is given in good faith, but it is for the Users to satisfy themselves

of the suitability of the product for their own particular purpose. Atom Scientific Ltd gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Atom Scientific Ltd accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.