

SOUTHERN GROUP LABORATORY LIMITED

SAFETY DATA SHEET

SECTION 1.	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
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1.1 Product identifier

Product name 4% Sodium Hydroxide (M/1)

SGL Product code 3054

This product is a mixture

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

Identified uses Reagent for laboratory analysis

Uses advised against No information on uses against available

1.3. Details of the supplier of the safety data sheet

Supplier Southern Group Laboratory,
Cavendish Courtyard, Sallow Road,
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SECTION 2.	HAZARDS IDENTIFICATION
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2.1 Classification of the substance or mixture

Classification according to regulation (EC) No 1272/2008

Physical hazards

Substances and Mixtures Corrosive to Metals (category 1): H290

Health hazards

Serious Eye Damage (category 1): H318

Skin Corrosion (category 1B): H314

Environmental hazards

Based on available data, no classification met

For the full text of the H-Statements mentioned see Section 16.

2.2. Label elements

Pictogram



Signal word

DANGER

Hazard statements

H290: May be corrosive to metals

H314: Causes severe skin burns and eye damage

H318: Causes serious eye damage

Precautionary statements

P234: Keep only in original container

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

P264: Wash hands thoroughly after handling

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

P301+P330+P331+P310: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON Center or doctor/physician.

P303+P361+P353+P310: IF ON SKIN (or hair): Remove / Take off immediately all

contaminated clothing. Rinse skin with water / shower. Immediately call a POISON Center or doctor/physician

P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON Center or doctor/physician

P363: Wash contaminated clothing before reuse

P304+P340: If INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P390: Absorb spillage to prevent material damage.

P406: Store in a corrosive resistant container with a resistant inner liner

P501: Dispose of contents/container in accordance with national regulations.

2.3. Other hazards None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS
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3.1. Mixtures

Name	EC No.	CAS-No.	Concentration	Classification
Sodium hydroxide	215-185-5	1310-73-2	<5% w/v	Skin Corrosion 1A: H314 Serious Eye Damage 1: H318 Substance or Mixture Corrosive to Metals 1: H290

Composition comments The data shown are in accordance with Regulation (EC) No. 1272/2008.

SECTION 4. FIRST-AID MEASURES

4.1 Description of first aid measures

Inhalation Immediately remove from exposure to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms get medical advice and/or attention.

Ingestion Do NOT induce vomiting. Wash out mouth thoroughly with water. Give nothing to eat or drink. Immediately call a POISON CENTER or doctor/physician.

Skin contact Wash off thoroughly with plenty of soap and water. Remove contaminated clothing immediately and wash before re-use. Obtain medical advice and/or attention.

Eye Contact Immediately irrigate thoroughly with water for at least 15 minutes. Protect uninjured eye. Remove contact lenses, if present and easy to do. Obtain medical advice and/or attention.

Self Protection of the first aider Wear gloves (nitrile rubber recommended). Wash hands thoroughly after handling.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3. Indication of any immediate attention and special treatment needed

None known.

Notes for doctor No specific recommendations.

SECTION 5.	FIRE – FIGHTING MEASURES
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5.1. Extinguishing media

Suitable extinguishing media Water fog/spray, foam, carbon dioxide (CO₂), dry powder

Unsuitable extinguishing media None known

Prevent fire fighting media from entering watercourses or ground water.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Toxic products may be liberated by fire.
Hydrogen may form upon contact with metals

5.3. Advice for firefighters

Protective actions during firefighting Wear self contained breathing apparatus (SCBA) and prevent skin contact.

SECTION 6.	ACCIDENTAL RELEASE MEASURES
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6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective clothing as described in Section 8 of this safety data sheet.
Avoid breathing vapours or aerosols. Avoid contact. Provide adequate ventilation.

6.2. Environmental precautions

Must not be released into the environment.

6.3. Methods and material for containment and cleaning up

Collect spillage using suitable non-combustible material. Seal material in closed corrosive resistant container avoiding the generation of aerosols or vapours. Wear personal protective clothing as recommended in Section 8. Cover drains to avoid releasing into environment. Dispose as recommended in Section 13.

6.4. Reference to other sections

Section 8 for protective measures.
Section 13 for disposal considerations.

SECTION 7.	HANDLING AND STORAGE
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7.1 Precautions for safe handling

Wear personal protective clothing. Avoid contact with skin, eyes and clothing. Avoid formation of aerosols or vapours. Ensure adequate ventilation. Change contaminated clothing. Wash hands after working with material.

7.2 Conditions for safe storage, including any incompatibilities

Store according to label requirements. Keep closed.

7.3 Specific end use(s)

Use in laboratories.

SECTION 8.	EXPOSURE CONTROLS/PERSONAL PROTECTION
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8.1 Control parameters

Component	CAS No	Long Term Exposure Limit (8 hr TWA Reference Period)	Short Term Exposure (15 Min Reference Period)	Basis	Comments
Sodium hydroxide	1310-73-2	None	2 mg/m ³	UK. EH40 Workplace Exposure Limits	None

For those substances for which no short-term limit is specified, it is recommended that a figure of three times the long-term limit be used as a guideline for controlling short-term peaks in exposure.

8.2 Exposure controls

Engineering measures

Avoid inhalation of vapours, sprays, mists. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Protective equipment



Eye/face protection

Safety goggles (tightly fitting) or glasses with side protection complying with Standard EN166

Hand protection Disposable nitrile rubber gloves complying with EC Directive 89/686/EEC and Standard EN374
Glove thickness of 0.11mm
See manufacturer's recommendations for break through times
Material tested: Not applicable

Other skin and body protection Long sleeved clothing

Hygiene measures Wash hands immediately after use

Respiratory protection Required if vapour/aerosols are generated

SECTION 9.	PHYSICAL AND CHEMICAL PROPERTIES
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9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	No data available
Odour threshold	No data available
pH	>13
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	
Lower explosion limit (VOL-%)	No data available
Upper explosion limit (VOL-%)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility(ies)	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available

9.2. Other information

None

SECTION 10.	STABILITY AND REACTIVITY
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10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

Formation of explosive mixtures with: Metal, base light metals.

Formation of: Hydrogen

Violent reaction with: Acid Oxidising agents

10.4 Conditions to avoid

Aluminium, zinc, tin (evolution of hydrogen), acids, ammonium compounds.

10.5 Incompatible materials

Metal

10.6 Hazardous decomposition products

No data available

SECTION 11. TOXICOLOGICAL INFORMATION
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11.1 Information on toxicological effects

The acute toxicity data is based on the mixture.

Acute oral toxicity	No data available
Acute dermal toxicity	No data available
Acute inhalation toxicity	No data available
Skin corrosion/irritation	Skin Corrosion (category 1B): H314
Serious eye damage/irritation	Serious Eye Damage (category 1): H318
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT single exposure	No data available
STOT repeated exposure	No data available
Aspiration hazard	No data available

11.2 Additional information

No data available.

SECTION 12.	ECOLOGICAL INFORMATION
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12.1 Toxicity

No information available

12.2 Persistence and degradability

No information available

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

No information available

SECTION 13.	DISPOSAL CONSIDERATIONS
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13.1 Waste treatment methods

Dispose of in accordance with applicable local and national regulations.

SECTION 14.	TRANSPORT INFORMATION
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Land transport (ADR/RID) / Sea transport (IMDG) / Air transport (ICAO-TI/IATA-DGR)

<u>14.1 UN number</u>	1824
<u>14.2 UN proper shipping name</u>	SODIUM HYDROXIDE SOLUTION
<u>14.3 Transport hazard class(es)</u>	8
<u>14.4 Packing group</u>	II
<u>14.5 Environmental hazards</u>	No
<u>14.6 Special precautions for user</u>	No

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable, packaged goods.

SECTION 15.	REGULATORY INFORMATION
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15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of Substances and mixtures (as amended).

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16.	OTHER INFORMATION
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16.1 Relevant H- and EUH-phrases (number and full text)

H290: May be corrosive to metals
H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage

16.2 Additional information

The above information is based on present knowledge, but does not purport to be inclusive and should only be used as a guide. Southern Group Laboratory shall not be held liable for any damage resulting from handling or from contact with the above product.

The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made up material.

16.3 Revision summary

Changes to this issue Updated to format compliant with Regulation (EC) No 1907/2006 (REACH), the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) and Regulation (EC) No 1272/2008 (CLP).

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END OF SAFETY DATA SHEET