HURST SCIENTIFIC

Safety Data Sheet
Sodium Hydroxide Solution <0.5%

SECTION 1: Identification

GHS Product identifier

Product name	Sodium Hydroxide Solution <0.5%
Product number	SH0.01-0.5% -500M, 1L, 2.5L, 5L,10L
Brand	HurstChem

Other means of identification

0.1N Sodium Hydroxide, 0.1M Sodium Hydroxide.

Recommended use of the chemical and restrictions on use

Laboratory Reagent

Supplier's details

Name	Hurst Scientific
Address	2/36 Hensbrook Loop 6112 Forrestdale WA Australia
Telephone	1300 778 068
email	sales@hurstscientific.com.au

Emergency phone number

Australian Poisons Information Centre 131 126
Australian Emergency Services 000

SECTION 2: Hazard identification

General hazard statement

Classified as a Hazardous substance according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 8

Not a hazardous substance or mixture.

GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

Other hazards which do not result in classification
Classified as a Dangerous goods according to the ADG Code for the Transport of Dangerous Goods by Road and Rail (7th Edition).

SECTION 3: Composition/information on ingredients

Mixtures

Hazardous components

1. Water/Aqua/Eau

Concentration	Balance
CAS no.	7732-18-5

2. Sodium hydroxide

Concentration	< 0.5 %
CAS no.	1310-73-2

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	Evacuate to fresh air immediately. If unconscious place in recovery position, provide artificial respiration if breathing ceases.
In case of skin contact	Remove contaminated clothing and wash affected area with soap and water thoroughly. Seek medical attention.
In case of eye contact	Flush eyes with copious amounts of water for at least 15 minutes. Seek medical attention immediately.
If swallowed	DO NOT induce vomiting. Wash mouth out with copious amounts of water and seek immediate medical attention.

Personal protective equipment for first-aid responders
Eye wash station, safety shower and First Aid kit.

Indication of immediate medical attention and special treatment needed, if necessary
Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Carbon Dioxide, water spray or alcohol-resistant foam.

Specific hazards arising from the chemical
Toxic gases may evolve.

Special protective actions for fire-fighters
Wear SCBA (Self-Contained Breathing Apparatus) and full protective equipment.

Further information
Hazchem code 2R

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Wear appropriate protective clothing. Ensure adequate ventilation. If possible, contain the spill. Evacuate all unnecessary personnel.

Methods and materials for containment and cleaning up
Absorb with vermiculite or similar and place into a suitably labelled container. Dispose of waste according to local authority guidelines. Wash the affected area with a large volume of water. Do not contaminate drains or waterways.

SECTION 7: Handling and storage

Precautions for safe handling
No special measures are required. Use in an adequately ventilated area. Avoid breathing in mists or vapours. Wear appropriate protective clothing and practice good personal hygiene.

Conditions for safe storage, including any incompatibilities
Store in a cool, dry, well-ventilated area away from incompatibles. Keep containers tightly closed.

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 1310-73-2
Sodium hydroxide
AU/SWA (Australia): 2 Peak limitation mg/m3 TWA inhalation

Appropriate engineering controls
Ensure adequate ventilation to maintain airborne concentrations below national exposure standards.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
Safety glasses or goggles.

Skin protection
Chemical-resistant gloves and laboratory coat.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Color	Clear
Odor	No distinct odour
Boiling point or initial boiling point and boiling range	100°C
Flammability	Non-flammable
Lower and upper explosion limit/flammability limit	Not applicable
pH	>12
Solubility	Water soluble
Vapor pressure	Not available
Density and/or relative density	Approx. 1.0
Relative vapor density	Not available

SECTION 10: Stability and reactivity

Reactivity
Non-reactive under recommended conditions for use and storage.

Chemical stability
Stable under recommended conditions for use and storage.

Possibility of hazardous reactions
Polymerisation will not occur.

Conditions to avoid
No relevant information available.

Incompatible materials
No relevant information available.

Hazardous decomposition products
Toxic gases may evolve.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
ACUTE:
Eye Contact No irritating effect expected.
Skin Contact No irritating effect expected.

Skin corrosion/irritation
No classification available.

Serious eye damage/irritation
No classification available.

Respiratory or skin sensitization
No classification available.

Germ cell mutagenicity
No classification available.

Carcinogenicity
Not listed in the IARC monographs.

Reproductive toxicity
No classification available

Specific target organ toxicity (STOT) - single exposure
No classification available

Specific target organ toxicity (STOT) - repeated exposure
No classification available

Aspiration hazard
No classification available

Additional information

TOXICITY DATA:
Not available for this mixture.

SECTION 12: Ecological information

Toxicity
Not available.

Persistence and degradability
Not available.

Bioaccumulative potential
Not expected to bio-accumulate.

Mobility in soil
Not available.

Other adverse effects
Environmental fate (exposure) Do not contaminate drains and waterways.

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Dispose of in accordance with local authority guidelines.

Packaging disposal
Dispose of in accordance with local authority guidelines.

Other disposal recommendations
Special precautions Nil.

SECTION 14: Transport information

UN Number	None
UN Proper Shipping Name	None
Transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None
Transport in bulk according to IMO instruments	None

SECTION 15: Regulatory information

Chemical Safety Assessment

- Poison Schedule: S5
- TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight hour working day, for a five day week.

SECTION 16: Other information

Further information/disclaimer
This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011). The information contained within is believed to be accurate at the date of preparation/review. Hurst Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage related to the

supply or use of the information in this material safety data sheet. It is recommended the user make their own determinations as to the suitability of the information provided to the application in which the product is to be used.

Preparation information

References

1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013)
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code); Canprint: Canberra (2007), Volume 1, 7th Edition.
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).