

Wobelea Pty Ltd
T/As Poolkare Chemicals
18 Embrey Court, Pakenham Victoria 3810

ABN: 60 005 363 833

POOLKARE CHEMICALS - HYDROSAN

Safety Data Sheet according to WHS and ADG requirements

Issue Date: **22.02.2017**

Revise Before:

21.02.22

VERSION ONE

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

Product Identifier

| | |
|-------------------------------|-----------------------------|
| Product name | POOLKARE CHEMICALS HYDROSAN |
| Chemical Name | Sodium hydroxide |
| Other Name | Poolkare Chemicals HYDROSAN |
| Chemical formula | NaOH |
| Other means of identification | Not Available |
| CAS number | 1310-73-2 |

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

| | |
|--------------------------|---------------------------------|
| Relevant identified uses | FLOCCULANT AND FLOCCULATION AID |
|--------------------------|---------------------------------|

Details of the supplier of the safety data sheet


| | |
|-------------------------|------------------------------------|
| Registered company name | Wobelea Pty Ltd |
| Address | 18 Embrey Court, Pakenham Vic 3810 |
| Telephone | 03 5940 1077 |
| Fax | 03 5940 2599 |
| Website | www.wobelea.com.au |
| Email | Not Available |

Emergency telephone number

| | |
|-----------------------------------|---------------|
| Association / Organisation | Not Available |
| Emergency telephone numbers | 03 5997 1690 |
| Other emergency telephone numbers | 0427 367 561 |

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SECTION 2 HAZARDS IDENTIFICATION

| | |
|---|---|
| GHS classification of the substance/mixture Signal Word | Corrosive to Metals: Category 1 Skin Corrosion/Irritation: Category 1A |
| Signal Word | DANGER |
| Hazard statements | H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. Corrosion |
|  | Corrosive |
| Precautionary Statement Prevention | P234 Keep only in original container. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. |
| Precautionary Statement Response | P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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/physician. |
| Precautionary Statement Storage | P363 Wash contaminated clothing before reuse. Store locked up. Store in corrosive resistant/... container with a resistant inner liner. |

CLASSIFIED AS HAZARDOUS AND DANGEROUS GOODS according to WHD and ADG regulations.

Hazard statement(s)

| | |
|------|-----------------------------------|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |

Supplementary statement(s)

Not Applicable

Precautionary statement(s) Prevention

| | |
|------|--|
| P271 | Use only outdoors or in a well-ventilated area. |
| P261 | Avoid breathing mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

Precautionary statement(s) Response

| | |
|----------------|--|
| P362 | Take off contaminated clothing and wash before reuse. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312 | Call a POISON CENTER or doctor/physician if you feel unwell. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |

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Precautionary statement(s) Storage

| | |
|------------------|--|
| P405 | Store locked up. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

Precautionary statement(s) Disposal

| | |
|-------------|---|
| P501 | Dispose of contents/container in accordance with local regulations. |
|-------------|---|

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**Substances**

| CAS No | %[weight] | Name |
|---------------------------------------|-----------|------------------|
| 1310-73-2/ 215-185-5/ 011-002-00-6 | 0.2-2% | Sodium hydroxide |

Mixtures

See section above for composition of Substances

SECTION 4 FIRST AID MEASURES**Description of first aid measures**

| | |
|---------------------|---|
| Eye Contact | <p>If this product comes in contact with the eyes:</p> <ul style="list-style-type: none"> ▶ Wash out immediately with fresh running water. ▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. ▶ Seek medical attention without delay; if pain persists or recurs seek medical attention. ▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
| Skin Contact | <p>If skin contact occurs:</p> <ul style="list-style-type: none"> ▶ Immediately remove all contaminated clothing, including footwear. ▶ Flush skin and hair with running water (and soap if available). <p>Seek medical attention in event of irritation.</p> |

| | |
|--|---|
| Inhalation | <p>If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary.</p> |
| Ingestion | <p>Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</p> |
| Indication of any immediate medical attention and special treatment needed – Treat symptomatically. | |

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- ▶ Use extinguishing media suitable for surrounding area.

Special hazards arising from the substrate or mixture

| | |
|----------------------|--------------|
| Fire Incompatibility | ▶ None known |
|----------------------|--------------|

Advice for firefighters

| | |
|-----------------------|---|
| Fire Fighting | <ul style="list-style-type: none"> ▶ Alert Fire Brigade and tell them location and nature of hazard. ▶ Wear breathing apparatus plus protective gloves in the event of a fire. ▶ Prevent, by any means available, spillage from entering drains or water courses. ▶ Use fire fighting procedures suitable for surrounding area. |
| Fire/Explosion Hazard | <ul style="list-style-type: none"> ▶ May emit corrosive fumes as CO Non-combustible. ▶ Not considered a significant fire risk, however containers may burn. ▶ |

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| | |
|--------------|---|
| Minor Spills | <ul style="list-style-type: none"> ▶ Clean up all spills immediately. ▶ Avoid breathing dust/vapour and contact with skin and eyes. ▶ Wear protective clothing, gloves, safety glasses and dust respirator. ▶ Use dry clean up procedures and avoid generating dust. |
| Major Spills | <p>Moderate hazard.</p> <p>Do not allow undiluted product into waterways. Dilute with plenty of water and refer to local regulations for your state or country.</p> <p>CAUTION: Advise personnel in area.</p> <p>Alert Emergency Services and tell them location and nature of hazard.</p> <p>Control personal contact by wearing protective clothing.</p> <p>Bind with absorbent material such as sand or diatomaceous earth,</p> <ul style="list-style-type: none"> ▶ sawdust. Dispose of contaminated material in accordance to state or country regulations. ▶ |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling

| | |
|-------------------|---|
| Safe handling | <ul style="list-style-type: none"> ▶ Avoid all personal contact, including inhalation. ▶ Wear protective clothing when risk of exposure occurs. ▶ Use in a well-ventilated area. ▶ Prevent concentration in hollows and sumps. ▶ Minimise airborne dust and eliminate all ignition sources. Keep away from heat, hot surfaces, sparks, and flame. <p>Establish good housekeeping practices.</p> <p>Remove dust accumulations on a regular basis by vacuuming or gentle sweeping to avoid creating dust clouds.</p> |
| Other information | <ul style="list-style-type: none"> ▶ ▶ Store in original containers. ▶ Keep containers securely sealed. ▶ Store in a cool, dry area protected from environmental extremes. ▶ Store away from incompatible materials such as acids, metals and light metals and foodstuff containers. ▶ ▶ |

Conditions for safe storage, including any incompatibilities

| | |
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| Storage | ▶ + 5°C to + 35°C protect from sun. |
|---------|-------------------------------------|

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| Suitable container | <ul style="list-style-type: none"> ▶ Plastic pail. ▶ Polyliner drum. ▶ Packing as recommended by manufacturer. ▶ |
| Storage incompatibility | <ul style="list-style-type: none"> ▶ Do not store the original container gas tight. ▶ Do not store with acids and other chlorine products <p>Do not store in aluminium, tin or zinc container</p> |



0 + + + + + 0

- X** — Must not be stored together
0 — May be stored together with specific preventions
+ — May be stored together

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS

| Ingredient | Material name | TEEL-1 | TEEL-2 | TEEL-3 |
|------------------|------------------|---------------|---------------|---------------|
| Sodium hydroxide | Sodium hydroxide | Not available | Not available | Not available |


| Ingredient | Original IDLH | Revised IDLH |
|------------------|---------------|---------------|
| Sodium hydroxide | Not Available | Not Available |

Control parameters MAK-Values acc. GKV 2007 An. I

| Name | CAS# | MAK | DMV / STV* | | Exposure period |
|------------------|-----------|-----|------------|----------------------|-----------------------|
| | | | [ppm] | [mg/m ³] | |
| Sodium hydroxide | 1310-73-2 | MAK | | 2 E* / 4 E* | 5(Mow*)/ 8x for shift |

*DMV (daily mean value) STV (Short term value) E (Respirable fraction) Mow (Momentary value)

Exposure controls – the following is based on good housekeeping and should be used as a precaution only at the users discretion.

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|---|---|
| Appropriate engineering controls | <p>Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.</p> <p>The basic types of engineering controls are:</p> <p>Process controls which involve changing the way a job activity or process is done to reduce the risk.</p> <p>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.</p> |
| Personal protection |  |
| Eye and face protection | <p>Safety glasses with side shields.</p> <p>Chemical goggles.</p> <p>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.</p> |
| Skin protection | See Hand protection below |
| Hands/feet protection | <p>The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can't be calculated in advance and has therefore to be checked prior to the application.</p> <p>The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.</p> <p>Suitability and durability of glove type is dependent on usage.</p> <p>Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.</p> <ul style="list-style-type: none"> polychloroprene. nitrile rubber. butyl rubber. |
| Body protection | See Other protection below |

| | |
|--|---|
| Other protection | <p>Overalls.</p> <p>P.V.C. apron.</p> <p>Barrier cream.</p> |
| Thermal hazards | Not Available |
| Respiratory protection | |
| Particulate. (AS/NZS 1716 & 1715, EN 143:000 & 149:001, ANSI Z88 or national equivalent). Follow good house keeping rules. | |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|---|------------------------|--|-----------------|
| Appearance | Liquid, colourless | | |
| Physical state | Liquid | Relative density (Water = 1) | Not available |
| Odour | odourless | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Applicable |
| pH (as supplied) | Approximately 12 | Decomposition temperature | Not available |
| Melting point / freezing point (°C) | -6 °C | Viscosity (cSt) | 20°C = 1.1 mPas |
| Initial boiling point and boiling range (°C) | 102. °C | Molecular weight (g/mol) | Not available |
| Flash point (°C) | Not Applicable | Taste | Not Available |
| Evaporation rate | Not Applicable | Explosive properties | Not Available |
| Flammability | Not Applicable | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Non explosive | Surface Tension (dyn/cm or mN/m) | Not Applicable |
| Lower Explosive Limit (%) | Not Applicable | Volatile Component (%vol) | Nil |
| Vapour pressure (kPa) | 50°C = 298 K / 2.7 kPa | Gas group | Not Available |
| Solubility in water (g/L) | Consulate 20°C | pH as a solution (1%) | unknown |
| Vapour density (Air = 1) | 0°C = 5 mbar | VOC g/L | Not Available |

SECTION 10 STABILITY AND REACTIVITY

| | |
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| Reactivity | See section 7 |
| Chemical stability | Unstable in the presence of incompatible materials such as acids mixing with metals, light metals can form hydrogen Product is considered stable and hazardous polymerisation will not occur. |
| Possibility of hazardous reactions | See section 7 |

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|---|---------------|
| Conditions to avoid | See section 7 |
| Incompatible materials | See section 7 |
| Hazardous decomposition products | See section 5 |

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

| | | |
|-------------------------|---|--|
| Inhaled | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. | |
| Ingestion | Although ingestion is not thought to produce harmful effects (as classified under EC Directives – maintain good hygiene and housekeeping practises. | |
| Skin Contact | Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions. | |
| Eye | Limited evidence or practical experience suggests, that the material may cause eye irritation in a substantial number of individuals. | |
| Chronic | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course. | |
| Sodium hydroxide | TOXICITY Oral (rat) LD50: 20 ml/kg- LG live weight (24 hours) | IRRITATION skin irritant and eye irritant. |

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

There is no adverse effect of the product if it is diluted with plenty of Water.

Persistence and degradability

| | | |
|-------------------|-------------------|-------------------------|
| Ingredient | Water/Soil | Persistence: Air |
| Sodium hydroxide | No data available | No data available |

Bio accumulative potential

| | |
|-------------------|-------------------------|
| Ingredient | Bio accumulation |
| Sodium hydroxide | No data available |

Mobility in soil

| | |
|-------------------|-------------------|
| Ingredient | Mobility |
| Sodium hydroxide | No data available |

NOTE: Do not dispose of the product undiluted with ground water. Mix with plenty of water and refer to local, state or country regulations.

Known Waste byproducts:

Alkaline solution mixture as sodium hydroxide and potassium hydroxide

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods

| | |
|-------------------------------------|--|
| Product / Packaging disposal | <p>Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.</p> <p>A Hierarchy of Controls seems to be common - the user should investigate:</p> <ul style="list-style-type: none"> ▶ Reduction ▶ Reuse ▶ Recycling ▶ Disposal (if all else fails) <p>This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use.</p> <ul style="list-style-type: none"> ▶ Dilute leftover material with plenty of water and can be disposed of to sewage or storm water as long as waste laws are observed in their state or country. ▶ Empty containers may be triple rinsed and disposed off in local rubbish collection. Refer to your local, state or country laws. ▶ |
|-------------------------------------|--|

SECTION 14 TRANSPORT INFORMATION

Labels Required

| | |
|-------------------------|----|
| Marine Pollutant | NO |
| HAZCHEM | |

Transport Information:

Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following: Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity. Not to be loaded on the same vehicle with strong acids.

| | |
|-------------------------|---------------------------|
| UN-number | 1824 |
| Proper UN-shipping name | SODIUM HYDROXIDE SOLUTION |
| Transport hazard class | 8 |
| Hazchem Code | 2W |
| Packing method | 3.8.8 |
| Packing group | III |
| EPG Number | 8A1 |
| IERG Number | 37 |



Corrosive

Special precautions for the user

Colourless fluid. Decomposes aluminium, zinc and tin. Generates ammonia gas in contact with ammonium salts. Causes burns to skin, eye and mucosae. Serious reacting with acids.

Transport in bulk according to Annex II of MARPOL agreement 73/78 and according to IBC- Code

IBC03; EMS: F-A, S-B

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture. Listed in the Australian Inventory of Chemical Substances (AICS)

This safety data sheet complies with the Regulations (EC) Reach N° 1907/2006. The mixture is classified according to Dangerous Preparations Directive (EC) 1999/45 and to regulation (EC) 1272/2008 Annex I.

National regulatory: Austria: Labeling according to BGBl II 2000/81 ChemV 1999. The product is not classified and does not require hazards identification.

ChemG 1996 This product is not classified hazardous according to the Austrian chemical legislation of 1996. VbF - Directive about combustible liquids (BGBl 1991/240) This product is not classified as combustible liquid.

Germany: Classification in water hazard classes according VwVwS dated 17.05.1999 (self assessment)

wp 2 (water pollutant) Chemical safety assessment The mixture is not subject to safety assessment

Continued...

SODIUM BICARBONATE – POOLKARE CHEMICALS DRY ALKALI

SECTION 16 OTHER INFORMATION

Other information

All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Wobelea Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

Please note this product is designed as a precursor to activate with acids and or liquid chlorine to form chlorine dioxide.

This SDS should be used a guideline only. Further information can be obtained from the manufacturer if required. The user should be aware of changing technology, research, regulations, and analytical procedures that may require changes herein. The above data is supplied upon the condition that persons will evaluate this information and then determine its suitability for their use.

| | |
|------------------------------|--|
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Definitions and abbreviations

PC—TWA: Permissible Concentration-Time Weighted Average
PC—STEL: Permissible Concentration-Short Term Exposure Limit
IARC: International Agency for Research on Cancer
ACGIH: American Conference of Governmental Industrial Hygienists
STEL: Short Term Exposure Limit
TEEL: Temporary Emergency Exposure Limit,
IDLH: Immediately Dangerous to Life or Health Concentrations
OSF: Odour Safety Factor
NOAE : No Observed Adverse Effect Level
LOAEL: Lowest Observed Adverse Effect Level
TLV: Threshold Limit Value
LOD: Limit Of Detection
OTV: Odour Threshold Value
BCF: Bio-Concentration Factors
BEI: Biological Exposure Index

end of SDS