

SAFETY DATA SHEET

SODIUM HYPOCHLORITE - 4% SOLUTION

Infosafe No.: 1HH0Y
ISSUED Date: 26/07/2017
Issued by: CULBEAG HOLDINGS Pty Ltd

1. IDENTIFICATION

GHS Product Identifier

SODIUM HYPOCHLORITE - 4% SOLUTION

Company Name

CULBEAG HOLDINGS Pty Ltd (ABN 95 007 197 079)

Address

19 Allied Drive Tullamarine
VICTORIA 3043 Australia

Telephone/Fax Number

Tel: 03 9335 4400

Fax: 03 9335 1750

Emergency phone number

03 9335 4400

Emergency Contact Name

Mr Ian Cameron

E-mail Address

sales@culbeag.com.au

Recommended use of the chemical and restrictions on use

Used as a disinfectant.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

SP1 Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

SP4 Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Signal Word (s)

WARNING

Hazard Statement (s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Pictogram (s)

Exclamation mark

**Precautionary statement – Prevention**

P264 Wash contaminated skin thoroughly after handling.

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

Precautionary statement – Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see or refer to First Aid Measures in Section 4 of this SDS or on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337 If eye irritation persists:

P362 Take off contaminated clothing and wash before reuse.

Precautionary statement – Storage

Store securely when not in use.

Store in corrosion resistant container or in a container with a corrosion resistant liner.

Precautionary statement – Disposal

Dispose of contents and/or container in accordance with State, Territorial or Commonwealth regulations.

Supplemental Information

In Australia the POISON CENTER is the POISONS INFORMATION CENTRE - Telephone Number is 13 11 26.

Other Information

A * throughout this document is a referral to the List of References in Section 16.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

| Name | CAS | Proportion |
|---------------------|------------|-------------------|
| Sodium Hypochlorite | 7681-52-9 | 3-4 % |
| Sodium Hydroxide | 1310-73-2 | 0-0.3 % |
| Water | 7732-18-5 | Balance to 100% |

4. FIRST-AID MEASURES

Inhalation

Move people from contaminated area immediately, but avoid injury to yourself. If patient(s) not breathing apply artificial respiration. If breathing is difficult oxygen can be given by a suitably trained/qualified person. Obtain medical attention or transport to a hospital promptly.

Ingestion

Never give fluids by mouth or induce vomiting if patient is unconscious or having convulsions. If swallowed do NOT induce vomiting. If conscious and alert give a glass of water to rinse mouth but do not swallow. Give 1 or 2 glasses of water to drink. Obtain medical advice promptly or transfer to a hospital.

Skin

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water for at least 15 minutes. Seek medical attention promptly or transport to an emergency hospital. Wash contaminated clothing thoroughly before re-use.

Eye contact

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Consult a doctor or take to a hospital promptly.

First Aid Facilities

An eye wash unit, a safety shower and drinking quality water should be readily accessible in the work area. Mild soap should be available to aid washing of the skin.

Advice to Doctor

No antidote available. Treat symptomatically and supportively.

Indication of immediate medical attention and special treatment needed if necessary

For advice, contact Poisons Information Centre, Phone Australia 131126, or a doctor.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Not combustible. Use extinguishing media appropriate for the source of the fire. Do NOT get water inside containers. Use water fog or fine water spray to keep intact containers cool while exposed to fire conditions.

Specific Methods

Remove sealed containers from the path of a fire if safe to do so. If not keep fire-exposed containers cool with a water spray. Operate upwind of the containers and out of the path of the fire.

Specific Hazards Arising From The Chemical

None expected as product is neither flammable nor combustible. As an oxidising agent it will greatly increase the burning rate of combustible materials. Sealed containers exposed to the heat of a fire may rupture releasing a corrosive solution as a spray and chlorine from decomposition of the product.

Precautions in connection with Fire

Firefighters should wear full protective equipment and other equipment such as, self-contained breathing apparatus relevant to the major source of fire and the potential release of chlorine gas if product containers rupture.

6. ACCIDENTAL RELEASE MEASURES

Methods And Materials For Containment And Cleaning Up

Remove unnecessary people from spill area. Wear appropriate protective clothing and contain spill with dry soil, dry sand or vermiculite to prevent entry into drains, sewers, water courses and water storages. Do NOT use sawdust. Collect spilled material if possible, otherwise soak up in an inert absorbent material and collect in labelled containers for disposal. Residual spilled product can be neutralised with a weak solution of sodium sulphite. Wash residual materials from spill scene/area with plenty of water.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not breathe vapour, mist or gas. Do not get in eyes, on skin or on clothing. Discard contaminated leather footwear. Use clean containers for dispensing. Mix with water only by adding product to the water and stirring thoroughly before adding more product.

Conditions for safe storage, including any incompatibilities

Product is not a Dangerous Good for storage. Store under cover in a dry, clean, cool, well-ventilated place away from sunlight, food, food stuffs, strong acids, oxidising agents. Store in an upright container. Ensure that container is closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

Sodium hypochlorite decomposes to chlorine if strongly acidified or heated. Under normal storage and handling conditions no hazardous decomposition products are released. A Workplace Exposure Standard (WES)* has not been established by the SWA* for sodium hypochlorite.

For chlorine the WES is 1 ppm, Peak limitation;

where a Peak limitation is the maximum atmospheric concentration determined over the shortest, analytically practicable period of time not exceeding 15 minutes.

Appropriate Engineering Controls

A system of local and/or general exhaust ventilation is recommended to keep exposure levels below the Workplace Exposure Standard for chlorine. Ensure that ventilation installed is adequate and maintained to reduce inhalation exposure potential when handling and using this product.

Respiratory Protection

If exposure limit is exceeded and engineering controls are not practicable a full face air-purifying (acid gas) respirator may be used. Where atmospheric concentrations are unknown wear a fullface positive-pressure air supplied respirator. Select and fit approved respirators according to AS/NZS 1715* and AS/NZS 1716*.

Eye Protection

Wear approved chemical goggles. Eye protection complying with AS/NZS 1337* should be worn to protect against splashes and droplets of the product entering the eye. Guidance to recommended practices for eye protection in the industrial environment is provided in AS/NZS 1336*. Ensure that an eye wash facility is readily available and accessible in the workplace.

Body Protection

Employees handling and using this product are recommended to wear long-sleeved body covering clothing, protective gloves e.g. PVC coated gloves, eye protection (see above), PVC apron and for some operations 'rubber' or PVC footwear.

Selection of protective clothing can be guided by reference to AS/NZS 4501*.

Remove contaminated clothing promptly. Wash contaminated clothing before re-use.

Discard contaminated footwear.

Hygiene Measures

It is a good work practice to avoid eye and skin contact, and avoid breathing vapour or mists of this product.

In addition it is a good practice to wash face, hands and arms before eating, drinking or smoking and at the end of a work period.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Clear pale yellow liquid with a characteristic odour.

Odour

Chlorine-like odour.

Boiling Point

100°C

Solubility in Water

Soluble in all proportions.

Specific Gravity

1.04 - 1.06 @ 20°C

pH

Not determined but expected to be pH14

Vapour Pressure

Not determined

Flash Point

Not applicable product is not flammable or combustible.

Flammability

Product is not flammable or combustible as it is a water based product.

Flammable Limits - Lower

Not relevant for non-flammable products.

Flammable Limits - Upper

Not relevant for non-flammable products.

10. STABILITY AND REACTIVITY

Reactivity

Decomposes slowly at ambient temperatures releasing low concentration of chlorine. Decomposition influenced by temperature, exposure to light and the presence of metals.

Conditions to Avoid

Sunlight, combustible materials, strong acids and temperatures above 40°C

Incompatible materials

Strong acids, amines, ammonia, ammonium salts, reducing agents, metals, methanol, formic acid. Do not mix with different types of chlorinating compounds.

Hazardous Decomposition Products

Chlorine gas evolved on heating.

Possibility of hazardous reactions

Evolves toxic and corrosive gas on contact with acids. Hypochlorous acid fumes with weak acids and chlorine if reacted with strong acids such as hydrochloric acid and sulphuric acid. Reacts with aluminium and zinc, generating hydrogen.

11. TOXICOLOGICAL INFORMATION

Ingestion

Irritating to mucous membranes and other tissues. Will cause moderate to severe irritation and potentially burns to throat (gullet) and stomach. May cause nausea and vomiting.

Inhalation

Inhalation of mists or vapour of product will cause moderate to severe irritation of mucous membranes of respiratory tract. Vapour of product may cause eye irritation.

Skin

Moderate skin irritant on single short term exposure. Prolonged or frequently repeated skin contact may result in a burn.

Eye

If in eyes will cause moderate to severe irritation and possibly eye burns. Product may be corrosive to eye tissue. May be a risk of harmful eye effects. May cause permanent injury possibly loss of sight.

Chronic Effects

Prolonged or frequently repeated exposure may cause dermatitis.

12. ECOLOGICAL INFORMATION

Environmental Protection

Toxic to aquatic organisms. Avoid contamination of sewers, drains, watercourse and water storages.

13. DISPOSAL CONSIDERATIONS

Waste Disposal

Dispose of waste materials in accordance with relevant State, Territorial or Commonwealth waste disposal regulations.

Container Disposal

Triple rinse empty containers with water. Return to supplier. Do NOT use for storage or packaging of other liquids, food or food stuffs.

14. TRANSPORT INFORMATION

Transport Information

Product is NOT classified as a dangerous good. Product should not be transported with other goods that are classified as dangerous goods of Class 1, Class 4.3, Class 5, Cyanides, Acids, Radioactive goods and with food and food packaging in any quantity.

U.N. Number

None Allocated

UN proper shipping name

None Allocated

Transport hazard class(es)

None Allocated

15. REGULATORY INFORMATION

Regulatory information

This product is NOT classified as a dangerous good*.

Classified as a Hazardous Chemical - SKIN IRRITANT and SERIOUS EYE IRRITANT, according to the GHS for Classification and Labelling of Hazardous Chemicals*.

Scheduled as a Schedule 5 poison in the National Poisons Standard*.

Poisons Schedule

S5

Packaging & Labelling

It is good practice to package this product in compatible materials such as polyethylene.

Australia (AICS)

Principal components of this product are included in the Australian Inventory of Chemical Substances*.

16. OTHER INFORMATION

Date of preparation or last revision of SDS

Converted MSDS, revised September 2012, to a SAFETY DATA SHEET (SDS) in July 2017 in accord with the relevant SWA code of practice for preparing a SDS*. Revisions to Section 2 - classification, hazard, precautionary statements and pictogram added; Section 4 - Skin, Section 7 - Condition for Safe Storage; Section 8 - National Exposure Standards, changed to Workplace Exposure Standards(WES) title, Reference to SWA instead of NOHSC, Body Protection - added reference to AS/NZS 4501 - Selection of Protective Clothing; Section 11 - Skin, deleted referral to List of Designated Hazardous Substances; Section 16 - Revision date; Literature References - revised set. Throughout document numbered references changed to * for a reference.

References

- * GHS = Globally Harmonised System for the Classification and Labelling Hazardous Chemicals. United Nations publication
- * Australian Dangerous Goods Code, 7th Edition, 2007 as amended.
- * WES = Exposure Standards for Atmospheric Contaminants in the Occupational Environment in exposure standards section of HSIS, as amended.
- * SWA = Safe Work Australia formerly National Occupational Health and Safety Commission.
- ^ AS = Australian Standard
- * NZS = New Zealand Standard.
- * AS/NZS 1716: Respiratory protective devices.
- * AS/NZS 1715: Selection, use and maintenance of respiratory protective devices.
- * AS/NZS 1337: Eye protectors for the industrial applications.
- * AS/NZS 1336: Recommended practices for eye protection in the industrial environment.
- * AS/NZS 4501 - Protective clothing-Protection against chemicals.
- * National Poisons Standard available from Commlaw website.
- * AICS = Australian Inventory of Chemical Substances maintained by National Industrial Chemicals Notification and Assessment Scheme.
- * National Model Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals, Safe Work Australia.

Contact Person/Point

BUSINESS HOURS: Product Information Officer, (03) 9335 4400

This SDS summarises our best knowledge of the health and safety hazard information of this product and how to safely handle and use the product in the workplace. Each user must review this SDS in the context of how the product will be handled and used in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is available on our website at www.culbeag.com.au

END OF SDS

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