



SAFETY DATA SHEET

SODIUM HYPOCHLORITE 10%

Infosafe No.: CI05Q
ISSUED Date : 18/08/2017
ISSUED by: custom

1. IDENTIFICATION

GHS Product Identifier

SODIUM HYPOCHLORITE 10%

Product Code

0071254

Company Name

CUSTOM CHEMICALS INTERNATIONAL PTY LTD (ABN 73 050 537 674)

Address

103-107 Potassium Street Narangba
QLD AUSTRALIA

Telephone/Fax Number

Tel: 07 3204 8300

Fax: 07 3204 8311

Emergency phone number

13 1126 in Australia (AH)

Recommended use of the chemical and restrictions on use

Concentrated bleach solution

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Corrosive to Metals: Category 1

Eye Damage/Irritation: Category 1

Skin Corrosion/Irritation: Category 1B

Signal Word (s)

DANGER

Hazard Statement (s)

May be corrosive to metals.

Causes severe skin burns and eye damage.

Causes serious eye damage.

Pictogram (s)

Corrosion

**Precautionary statement – Prevention**

Keep only in original container.

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

Wash contaminated skin thoroughly after handling.

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

Precautionary statement – Response

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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.

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

Precautionary statement – Storage

Store locked up.

Store in corrosive resistant/approved container with a resistant inner liner.

Precautionary statement – Disposal

Dispose of contents/container to an approved waste facility..

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Sodium hypochlorite	7681- 52- 9	10- 30 %

4. FIRST-AID MEASURES

Inhalation

If inhaled, remove affected person from contaminated area. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position. Apply artificial respiration if not breathing. Seek medical attention.

Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. If vomiting occurs, give further water to achieve effective dilution. Seek immediate medical attention.

Skin

Wash skin with plenty of water. Ensure contaminated clothing is washed before re-use or discard. Seek medical attention if burning, irritation or redness develops.

Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.

First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

Other Information

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

5. FIRE-FIGHTING MEASURES

Fire Fighting Measures

Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear self contained breathing apparatus if risk of exposure to products of combustion or decomposition.

Suitable Extinguishing Media

Use carbon dioxide, water fog or fine water spray.

Hazards from Combustion Products

Non combustible material however if involved in a fire will emit toxic fumes.

Specific Hazards Arising From The Chemical

This product is non combustible.

Hazchem Code

2X

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal

Minor spills do not normally need any special clean up measures. In the event of a large spill, prevent spillage from entering watercourses. Wear appropriate protective equipment (as listed in Section 8 of this SDS) to prevent eye and skin contamination. Spilt material may result in a slip hazard and should be absorbed into dry, inert material to be collected in appropriately labelled containers for disposal by an approved agent according to local regulations.

Residual deposits will remain slippery, wash down with excess water. If required, neutralise with sodium metabisulphite or sodium thiosulphate. If contamination of drains or sewers occurs advise local emergency services.

Clean-up Methods - Large Spillages

For large spills or tank rupture, consider initial evacuation to a distance of 100m in all directions. Stop leak if safe to do so. If available use water spray to disperse vapours. Wear appropriate PPE as listed in Section 8 of this SDS to prevent skin and eye contamination. Notify local environmental protection authority.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with incompatible materials. When handling DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with water after handling.

Conditions for safe storage, including any incompatibilities

Store in a cool dry well-ventilated area. Do not store in aluminium or light alloy containers. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No Exposure Limit Established

Appropriate Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing mists and fumes away from workers' breathing zone. If the engineering controls are not sufficient to maintain concentrations of dust below the exposure standards, suitable respiratory protection must be worn.

Respiratory Protection

Not required for normal cleaning operations with adequate ventilation. Where high contaminant spray mist or vapour levels exist, the following additional equipment is required: For short, elevated exposures eg. spillages - Appropriate organic vapour cartridge respirator as per the requirements of AS/NZ 1715 & AS/NZ 1716.

For prolonged exposure and confined spaces - full face, air supplied or self contained breathing apparatus.

Eye Protection

Generally not required to handle properly diluted solutions of the product. The use of safety glasses with side shield protection, goggles or face shield is recommended to handle in quantity, cleaning up spills, decanting etc.

Hand Protection

Wear gloves. Overalls, work boots & elbow length gloves are recommended for handling the concentrated product in quantity, cleaning up spills, decanting etc.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Liquid

Appearance

Straw coloured liquid

Odour

Chlorine

Freezing Point

Approx 0°C

Boiling Point

100°C

Solubility in Water

Miscible in all proportions.

Specific Gravity

1.2 (25°C)

pH

13.0 (neat)

Vapour Pressure

Not available

Volatile Component

Ca 90% v/v

Flash Point

Not flammable

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions of storage and handling.

Conditions to Avoid

ACIDS; violent reaction can occur yielding heat and pressure which can burst an enclosed container.

Attacks many reactive metals (aluminium, magnesium, zinc alloys) releasing flammable gas (hydrogen) which then generates fire or explosion hazards.

Reacts slowly with ambient air (particularly carbon dioxide) which may cause certain insoluble salts to form in solutions.

Incompatible materials

Amines, ammonium salts, aziridine, methanol & phenylacetonitrile. Reacts with metal salts, peroxides & reducing agents. Reacts violently with acids.

Hazardous Decomposition Products

Product can decompose on combustion to form Carbon Monoxide, Carbon Dioxide, and other possibly toxic gases and vapours.

Reacts vigorously with acids producing dangerous levels of gaseous chlorine.

Hazardous Polymerization

Not available.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

No adverse health effects expected if the product is used in accordance with this Safety Data Sheet and product label.

Acute Toxicity - Oral

For Sodium Hypochlorite

LD50(Rat): 8910 mg/kg

Ingestion

Harmful if swallowed. Ingestion of this product may cause nausea, vomiting of blood and eroded tissue, chemical burns of the throat, mouth and abdomen.

Inhalation

May cause severe bronchial irritation and pulmonary edema.

Skin

Causes severe skin burns. Severity depends on the concentration and duration of exposure.

Eye

Causes severe eye damage. Contact can cause corneal burns. Repeat overexposure may lead to chronic conjunctivitis.

Respiratory sensitisation

Repeated overexposure may lead to increased susceptibility to respiratory illness.

Skin Sensitisation

Prolonged and repeated skin contact with diluted solutions may induce eczematoid dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Individual components stated to be biodegradable.

Mobility

Product miscible in all proportions with water. Do not discharge bulk quantities into drains, sewers or waterways.

Environmental Protection

Prevent large amounts from entering waterways, drains and sewers.

Acute Toxicity - Fish

LC50(48hr): 0.07 - 5.9 mg/L

13. DISPOSAL CONSIDERATIONS

Disposal considerations

Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information

This material is classified as a Class 8 Corrosive Substances Dangerous Goods

Class 8 Dangerous Goods are incompatible in a placard load with any of the following:

- Class 1: Explosives
- Division 4.3: Dangerous when wet Substances
- Division 5.1: Oxidising substances
- Division 5.2: Organic peroxides
- Class 6, Toxic or Infectious Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids

Class 7: Radioactive materials unless specifically exempted

and are incompatible with food and food packaging in any quantity.

Strong acids must not be loaded in the same freight container or on the same vehicle with strong alkalis. Packing Group I and II acids and alkalis should be considered as strong.

U.N. Number

1791

UN proper shipping name

HYPOCHLORITE SOLUTION

Transport hazard class(es)

8

Packing Group

III

Hazchem Code

2X

IERG Number

37

15. REGULATORY INFORMATION

Regulatory information

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

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Poisons Schedule

S5

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS reviewed: August 2017, Supersedes: July 2013

References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals.

Other Information

DO NOT MIX WITH OTHER CHEMICALS WITHOUT PRIOR CONSULTATION WITH THE MANUFACTURER. Always use product as directed. Never return any unused material to original drum.

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writers knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product.

END OF SDS

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