



# SAFETY DATA SHEET

## SODIUM HYPOCHLORITE 10%

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

### 1. IDENTIFICATION

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**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

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**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..

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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**Ingredients**

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

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### 4. FIRST-AID MEASURES

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**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.

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### 5. FIRE-FIGHTING MEASURES

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**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

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### 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

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### 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

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### 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

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### 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

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## 10. STABILITY AND REACTIVITY

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**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.

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## 11. TOXICOLOGICAL INFORMATION

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**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.

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## 12. ECOLOGICAL INFORMATION

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**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**

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#### **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**

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#### **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**

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#### **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**

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#### **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.

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## **END OF SDS**

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