



PLUS EVERGROUP SDN.BHD. 799014-V

Headquarter : No.386, Jalan Tebrau, Taman Melodies, 80250 Johor Bahru, Johor Darul Takzim.
Tel: +607-332 8811 Fax: +607-332 8812

KL. Branch : No.37 Ground Floor, Jalan PJS 11/7, 46150 Bandar Sunway, Selangor Darul Ehsan.
Tel/Fax: +603-7491 7250
Email: info@plusevergroup.com

MATERIAL SAFETY DATA SHEET

SODIUM HYPOCHLORITE 10%

1. COMPANY IDENTIFICATION

Company Name : PLUS EVERGROUP SDN BHD
Address : No.386, Jalan Tebrau,
Taman Melodies,
80250 Johor Bahru, Johor.
Tel. Contact : 07-332 8811
Fax. No. : 07-332 8812

2. PHYSICAL DATA

Boiling Point : Decomposes
Vapour Pressure at 20°C (mm Hg) : 17.5
Vapour Density (Air-1) : N.A.
Solubility In Water : Complete
Appearance And Odour : Clear, pale yellow or greenish liquid with a chlorine odour
Molecular Weight : 74.4
Specific Gravity(H₂O = 1) : 5.25% : 1.09
(Household bleach)
8.0% : 1.15
12.0% : 1.21

3. FIRE AND EXPLOSION DATA

Flammable limits in air, % by volume
Upper : N.A.
Lower : N.A.

Flash Point (Test method) : Non flammable

EXTINGUISHING MEDIA : Use dry chemical, Co₂, hal on, standard foam or water spray whenever appropriate or surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES : Wear full protective clothing and self-contained breathing apparatus. Protection is needed against corrosive fumes and liquid if released.



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UNUSUAL FIRE AND
EXPLOSION HAZARD

: It is an oxidizing agent. Vigorous reactions can occur with oxidizable materials in a fire solution. It can be decomposed by heat. Chlorine liberated on contact with acid.

4. REACTIVITY DATA

STABILITY	: Anhydrous material is unstable, but aqueous solution can be stable for months under proper storage conditions.
HAZARDOUS POLYMERISATION	: Does not occur
MATERIALS TO AVOID	: Amines, ammonium nitrate, ammonium oxalate, ammonium phosphate, ammonium acetate, cellulose, methanol, aziridine, phenylacetone nitrite and ethylene imine
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS	: Reactions with soaps and toilet bowl cleaners containing bisulphite

5. HEALTH HAZARD DATA

EFFECT OF EXPOSURE

Toxicity due to alkalinity, possible chlorine generation and the oxidant properties. Ingestion can cause corrosion of mucous membranes, perforation of esophagus and stomach and laryngeal edema; may lead to convulsion, coma, death (5% concentration effects are much less damaging) inhalation of mist or fumes and cause bronchial irritation, cough, difficult breathing, stomatitis, nausea and pulmonary edema. Additional effects have included circulatory collapse and delirium. Liquid contact can produce irritation of the eyes or skin with blistering and eczema (especially at 12%).

EMERGENCY AND FIRST AID DATA

INGESTION (SWALLOWING) : Rinse mouth with water. Give large quantities of water or milk to drink. Do not use acidic antidotes or Sodium bicarbonate. An ounce of 1% sodium thiosulfate or milk of magnesium is helpful. Never give anything by mouth to an unconscious or convulsing person. Have physician contacted immediately.



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SKIN CONTACT

: Remove contaminated clothing. Flush affected area with copious amounts of water or shower. If irritation persists or if large areas of body are affected, contact physician treat burns as needed.

EYE CONTACT

: Irrigate eyes with running water for at least 15 minutes, including under eyelids. Then contact physician at once (ophthalmologist preferred).

INHALATION

: Remove to fresh air and administer supplemental oxygen with assisted ventilation as required to patient with respiratory tract irritation.

6. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

: Notify safety personnel of major spill and provide adequate ventilation. Clean up personnel need protection against contact with liquid and inhalation of mists and fumes. Contain spill and absorb where possible for recovery of disposal. Keep concentrated hypochlorite solution out of sewers and water ways. Do not use combustible absorbents (such as saw dust) to absorb hypochlorite solution. Consider neutralizing with reducing agents. Keep on alkaline side and dilute with copious quantities of water. Small spills and residues can usually be flushed to a suitable holding area, and then high dilution quantities to water.

WASTE DISPOSAL METHOD

: Follow all local, state and federal regulations for waste disposal.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

: Store in closed vented containers in the cool (below 29.5°C), dry, well-ventilated area. Away from direct sunlight, heat and incompatible, material, acids, and organic (wood, paper and oil).

7. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

: Use canister type respirators suitable for chlorine with mist filters.



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VENTILATION PROTECTION

LOCAL EXHAUST	: Use adequate ventilation.
MECHANICAL (GENERAL)	: N.A.
PROTECTIVE GLOVES	: Use rubber gloves.
EYE PROTECTION	: Use chemical safety goggles.
OTHER PROTECTION	: Use apron and protective clothing appropriate for work situation to prevent skin contact.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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