

Material Safety Data Sheet

LIQUID BLEACH

Infosafe No.: VAR9K
ISSUED Date : 13/07/2012
ISSUED by: Milestone Chemicals Pty. Ltd.

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name

LIQUID BLEACH

Company Name

Milestone Chemicals Pty. Ltd. (ABN 85115166357)

Address

115 Northern Road West Heidelberg
VIC 3081 Australia

Emergency Tel.

Poisons Information Centre Tel 131126

Telephone/Fax Number

Tel: (03) 9450 4555

Fax: (03) 9457 5518

Recommended Use

General purpose bleach, sanitation and whitening agent.

2. HAZARD IDENTIFICATION

Hazard Classification

HAZARDOUS SUBSTANCE.
DANGEROUS GOODS.

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).

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

Risk Phrase(s)

R31 Contact with acids liberates toxic gas.

R36/38 Irritating to eyes and skin.

Safety Phrase(s)

S1/2 Keep locked up and out of reach of children.

S28 After contact with skin, wash immediately with plenty of water

S45 In case of accident or if you feel unwell seek medical advice immediately

S50 Do not mix with acids

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization

Liquid

Ingredients

Name	CAS	Proportion
Ingredients determined not to be hazardous, including water.		to 100%
Sodium hypochlorite	7681-52-9	6.25%

4. FIRST-AID MEASURES

Inhalation

Remove victim to fresh air. Do not use mouth-to-mouth method if victim inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.

Ingestion

Immediately rinse mouth with water. Do NOT induce vomiting. Give a glass of water to be taken slowly. Seek immediate medical attention.

Skin

Remove all contaminated clothing and immediately wash affected area with plenty of water. If swelling, redness, blistering or irritation occurs, seek medical advice.

Eye

Hold eyes open and flood with running water for at least 15 minutes, bathe eyes with soothing eyedrops or sterile saline, urgently seek medical attention. Transport to hospital or medical centre.

First Aid Facilities

Eye wash station, safety shower and normal washroom facilities.

Advice to Doctor

Product is a solution of sodium hypochlorite. Corrosive to living tissues. Inhalation may be followed by pulmonary oedema. Treat symptomatically. Contact Poisons Information Centre.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use dry chemical, carbon dioxide, foam or water fog, appropriate to surrounding fire.

Hazards from Combustion Products

Corrosive or toxic fumes.

Special Protective Equipment for fire fighters

Self-contained breathing apparatus (SCBA) required for fire-fighting personnel. If possible to do so safely, shut off fuel to fire. Use water spray to spray to cool fire-exposed surfaces and to protect personnel.

Specific Hazards

If tanks, drums or containers of this material are heated, they may rupture and project corrosive materials over a wide area. May react violently with strong acids. May react vigorously or violently with reducing agents or peroxides. Contact with acids will generate chlorine, a poisonous gas. Contact with some metals will generate hydrogen, a flammable gas. Contact with ammonium salts will generate ammonia, a poisonous gas.

Hazchem Code

2X

Other Information

Avoid contact with coloured fabric as Chlorine may bleach colour out.

May give off dangerous gas if mixed with other products.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Keep unnecessary people away; Isolate hazard area and deny entry. Stay upwind; Keep out of low areas. Do not walk or touch spilt material unless wearing personal protection as outlined under MSDS. Shut off ignition sources, no flares, smoking or flames in hazard area. Stop leak if you can do it without risk. Water spray may reduce vapour.

Spills & Disposal

SMALL SPILLS:

Take up with sand, dirt or vermiculite. DO NOT use sawdust. Use non-sparking tools. Place into labelled drum(s) for later disposal.

LARGE SPILLS:

Notify Emergency Services (Police or Fire Brigade). Tell them exact location, nature, hazards, quantities, type of vehicle and any other information that would be helpful. Contain spill. Remove all ignition sources and safely stop flow of spill. Bund area. Trained

personnel should wear Personal Protective equipment as highlighted in this MSDS. Blanket the spill with foam or use water fog to disperse vapour clouds. Consult an expert regarding disposal of this product.

7. HANDLING AND STORAGE

Conditions for Safe Storage

Store in a well ventilated place, out of reach of children. Large quantities should be stored in a bonded dangerous goods store. Store in original container. Keep container tightly closed. May slowly lose chlorine on long storage. Keep away from acids, peroxides, reducing agents, combustible materials, and ammonium salts. Keep away from metals and metal salts. Prevent contact with aluminium, tin, zinc or galvanised iron. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

No Exposure Limit Established

Engineering Controls

Corrosive liquid. Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended.

Personal Protective Equipment

Prevent contact with the eyes. Avoid contact with the skin. Avoid breathing vapours. NOTE: When diluted at a rate of 1 in 40 or greater, the resulting mixture is no longer considered to be hazardous or poisonous and the use of protective equipment is at the user's discretion. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:-

Goggles, face shield or safety glasses

Gloves, neoprene or nitrile rubber or plastic

Plastic apron, sleeves and boots.

Respirators in accordance with AS/NZS 1715/1716. The use of a P1 dust mask (disposable) or with replaceable filters is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-contained breathing apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

Always maintain a high level of personal hygiene when using cleaning chemicals. That is wash hands before eating, drinking, smoking or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Liquid

Appearance

Pale yellow liquid.

Odour

Typical chlorine like odour

Boiling Point

No data

Solubility in Water

Miscible with water in all proportions.

Specific Gravity

1.1

pH Value

11.0-11.5 (1% solution)

Flash Point

None

Flammability

Not flammable.

Other Information

Very alkaline. Will react violently with acids, producing heat and generating chlorine gas. Oxidiser. Contact with combustible materials may cause fire. Will react violently with reducing agents. Readily absorbs carbon dioxide from the air. Will react with aluminium, tin and zinc, generating hydrogen, a flammable gas. May react with peroxides and metal salts. Contact with ammonium salts may generate ammonia gas.

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal use conditions.

Conditions to Avoid

Heat, flames, ignition sources and incompatibles.

Incompatible materials

Acids, oxidizing agents, ammonium salts, soft metals.

Hazardous Decomposition Products

Emits choking and corrosive fumes when heated to decomposition.

Hazardous Reactions

Contact with aluminium, tin, zinc or galvanised iron can generate hydrogen, a flammable gas. Contact with ammonium compounds can generate ammonia, a poisonous gas. Will react vigorously or violently with acids, generating chlorine gas. May form toxic oxides of Chlorine if involved in a fire.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

No adverse health effects are expected, if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

Inhalation

Will cause severe irritation to the nose, throat and respiratory system with effects including: Dizziness, headache, coughing, loss of co-ordination, chest pains, respiratory paralysis and or failure.

Ingestion

Will cause burns to the mouth, mucous membranes, throat, oesophagus and stomach. If sufficient quantities are ingested (swallowed) death may occur.

Skin

Will cause burns to the skin, with effects including; Redness, blistering, localised pain and dermatitis.

Eye

Will cause burns to the eyes with effects including: Pain, tearing, conjunctivitis and if duration of exposure is long enough, blindness will occur.

Chronic Effects

Prolonged or repeated skin contact will lead to necrosis (death) of the skin.

Prolonged or repeated exposure or deliberately concentrating and inhaling the vapour(s) may result in lung function incapacity or death.

Acute Toxicity - Oral

LD 50 : Sodium hypochlorite 5800 mg/kg oral, mouse

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product is corrosive and poisonous in large concentrations, particularly in the aquatic environment.

Persistence / Degradability

Readily biodegradable.

Mobility

Readily dilutes with water.

Information on Ecological Effects

This substance may cause long term adverse effects in the aquatic environment.

Environmental Protection

Avoid contaminating waterways, drains, sewers, or ground.

13. DISPOSAL CONSIDERATIONS

Waste Disposal

Refer to appropriate authority in your State. Dispose of material through a licensed waste contractor. Normally suitable for disposal by approved waste disposal agent.

14. TRANSPORT INFORMATION

Transport Information

Classified as a Class 8 Dangerous Good.

Dangerous Goods of Class 8 Corrosives 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 and Class 7.

Store away from acids.

U.N. Number

1791

Proper Shipping Name

HYPOCHLORITE SOLUTION

DG Class

8

Packing Group

III

Hazchem Code

2X

IERG Number

37

15. REGULATORY INFORMATION

Regulatory information

Classified as hazardous according to criteria of NOHSC

HAZARDOUS SUBSTANCE.

SCHEDULED POISON.

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).

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

Poisons Schedule

S5

Hazard Category

Irritant

Australia (AICS)

All components listed.

16. OTHER INFORMATION

Signature of Preparer/Data Service

Technical manager Tel: (03) 9450 4555

Technical Contact Numbers

Emergency Advice All Hours:

Chief Chemist Tel: (03) 9450 4555 Mon-Fri 8am - 6pm

Poisons Information Centre: 13 11 26 - 24hrs

Other Information

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the Workplace. Please refer to the technical datasheet (Instructions for use), and the label on the drum. The company cannot anticipate or control the individual working conditions encountered and so each user should read this MSDS carefully, and if in doubt ring the Contact Point Number given below.

END OF MSDS

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