NOHSC

Material Safety Data Sheet

LIQUID BLEACH

Infosafe™ No. VAR9K **Issue Date** July 2012 **Status** ISSUED by MILESTON BS: 1.16.151

Classified as hazardous according to criteria of NOHSC

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

Telephone/Fax Number Tel: (03) 9450 4555
Fax: (03) 9457 5518

Recommended Use General purpose bleach, sanitation and whitening agent.

Other Names Not Available

2. HAZARDS 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 Self-contained breathing apparatus (SCBA) required for fire-fighting personnel. If possible to do so safely, shut off fuel to

Equipment for fire fighters 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 bunded 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

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 conditons.
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.
Environment 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
Hazchem Code	2X
Packaging Method	3.8.8RT7,RT8
Packing Group	III
EPG Number	8A1

IERG Number 37

15. REGULATORY INFORMATION

Regulatory Information 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

AICS (Australia) All components listed.

16. OTHER INFORMATION

Contact Person/Point Chief Chemist.
Tel: (:03) 9459 9S33

24 Hr. Emergency:
Poisons Information Centre
Tel 131126

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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