

BLEACH**1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Product Name: **BLEACH**
Other Names: None.
Manufacturer's Product Code: BL5, BL20
Product Use: Cleaner, whitener and sanitiser for cleaning baths, basins and toilets.

COMPANY DETAILS

Company: Agar Cleaning Systems Pty. Ltd.
Address: 12-14 Cope Street, Preston, Vic. 3072
Telephone: 03 9480 3000 Facsimile: 03 9480 5100
Web: www.agar.com.au
Agar MSDS are available from this website.
E-mail: admin@agar.com.au

Emergency Telephone Number: 131 126 (Aust wide)

2 HAZARDS IDENTIFICATION

Not classified as hazardous according to criteria of Worksafe Australia.

Bleach contains not more than 5% available chlorine.

3 COMPOSITION / INFORMATION ON INGREDIENTS**Ingredients:**

Chemical Entity:	CAS No.:	Proportion:
sodium hypochlorite	7681-52-9	< 10%
sodium chloride	7647-14-5	< 10%
water	7732-18-5	> 60%

4 FIRST AID MEASURES

Poisons Information Centre: Phone 131 126

Swallowed: If poisoning occurs, contact a doctor or Poisons Information Centre. If swallowed, do NOT induce vomiting. Give a glass of water. Rinse mouth with water. Never give anything by mouth to an unconscious person.

Eye: Immediately hold the eyes open and wash continuously for at least 15 minutes with fresh running water. Ensure irrigation under eyelids by occasionally lifting the upper and lower lids. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin: Remove any contaminated clothing and flush area immediately with water and soap if available. Seek medical attention in the event of irritation.

Inhaled: Remove to fresh air. Lay patient down. Keep warm and rested. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation. Transport to doctor or hospital.

5 FIRE FIGHTING MEASURES

Fire/Explosion Hazard: Bleach is not combustible. No risk of hazardous polymerisation.

Fire Extinguishing media: Water spray or fog. Foam. Dry chemical powder. Carbon dioxide.

Special fire-fighting procedures: None.

Unusual fire hazards: A mixture with acids or heating can produce toxic chlorine gas. Reaction with metals produces oxygen.
Hazardous products of combustion: May yield toxic fumes.

6 ACCIDENTAL RELEASE MEASURES

Clean up all spills immediately. Avoid contact with skin and eyes. Contain spill and mop up. Prevent contaminating waterways. Place in a suitable, labelled container for waste disposal.

7 HANDLING AND STORAGE

Safety: Keep out of reach of children. Do not mix with other chemicals.

Storage and Transport: Store in a cool, dry place that is well-ventilated and away from foodstuff containers. Direct sunlight should be avoided.

Incompatibility (Materials to avoid for purposes of transport, handling and storage only): Avoid storage with acids, oxidising agents, reducing agents, metals and metallic salts.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards: None assigned for mixture.
Atmospheric Contaminant Exposure Standard for:
chlorine CAS No. 7782-50-5 TWA = 1 ppm (3 mg/cu.m)
STEL = Peak limitation same as TWA

[Source: Worksafe Australia NOHSC: 1003 (1995)]

Engineering Controls: Mechanical ventilation: Not required under normal conditions, but local exhaust ventilation should be used to control any air contaminants to within the Exposure Standards.

Personal Protection:

Gloves - Wear rubber, neoprene or nitrile gloves.

Eye protection – Not normally required but safety glasses should be worn if there is a risk of splashing.

Respiratory – If inhalation risk exists, a suitable cartridge type Respirator should be worn.

Other – Protective overalls are desirable. An eyewash unit should be available.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale green liquid

Odour: Faint chlorine odour

pH = 10 - 11

Vapour Pressure: N/K

Vapour Density: N/K

Boiling Point: Approx 100°C

Freezing Point: < 0°C

Solubility in water: Complete

Specific Gravity: 1.06

Evaporation rate: As water

% Volatile by vol: 85 – 95%

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10 STABILITY AND REACTIVITY

Stability: Stable. However, heat, light, contamination with acids or contact with metal surfaces may promote the formation of toxic chlorine gas.

Bleach is corrosive to aluminium, zinc and tin.

Bleach can burn holes in clothes and cotton mops.

Hazardous polymerization: None.

11 TOXICOLOGICAL INFORMATION

Health Effects: *Acute* -

Swallowed: Mildly irritating to the gastro-intestinal tract if swallowed.

Eye: Eye contact may result in slight irritation.

Skin: Principal route of exposure is usually by skin contact.

Repeated or prolonged skin contact may cause swelling, redness, blistering or dermatitis. It is not absorbed through the skin.

Inhalation: Overexposure to inhalation can result in coughing and respiratory difficulty. The vapour if concentrated may irritate the lungs. If reaction occurs to liberate chlorine (such as accidental admixture with acids), self-contained or air-supplied breathing apparatus will be required.

Health Effects – *Chronic*: None known.

Toxicity Data: No chronic effects known to occur as material is inactivated by tissue and blood serum.

(Note: this data is from published information. Agar Cleaning Systems does not carry out animal tests).

12 ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Persistence and degradability: -

Mobility: -

Advice: -

13 DISPOSAL CONSIDERATIONS

For disposal, refer to State Land Waste Management Authority.

14 TRANSPORT INFORMATION

UN No.: -	Class: -	Packg.Group: -	Hazchem: -
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15 REGULATORY INFORMATION

Poisons Schedule Number: Schedule 5.

16 OTHER INFORMATION

AICS Listing: All components of Bleach are listed on the Australian Inventory of Chemical Substances (AICS).

Date: This MSDS issued: April 24, 2006

Abbreviations: N/K = Not Known

TWA = Time Weighted average

STEL = Short term exposure limit

CAS = Chemical Abstracts Service

The information in this Data Sheet is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Agar Cleaning Systems accepts no tortious or contractual liability for any loss or damages suffered as a consequence of reliance on the information and advice contained herein.

End of MSDS.