

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 17.06.2013

Revision: 17.06.2013

1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: DOMESTIC GRADE BLEACH 4%**Other Name:** Available chlorine: 4-6%**Product Code:** XBL**Recommended Use of the Chemical and Restriction on Use:**

Dairy, food and beverage industries: Sanitising processing equipment.

Textile industry: Disinfectant

Water treatment: Sanitising agent.

Details of Manufacturer or Importer:

BRS Australia Pty Ltd

19 Computer Road, YATALA 4207

Phone Number:

07 3807 7400

Emergency telephone number:

1800 033 111

+61 3 9663 2130 International

2 . HAZARDS IDENTIFICATION

Hazardous Nature:

GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Label Elements**Signal Word** Danger**Hazard Statements**

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

Precautionary Statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P273 Avoid release to the environment.

P264 Wash hands thoroughly after handling.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P363 Wash contaminated clothing before reuse.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

(Contd. on page 2)

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 17.06.2013

Revision: 17.06.2013

Product Name: DOMESTIC GRADE BLEACH 4%

(Contd. of page 1)




P391 Collect spillage.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national regulations.
Additional Information AUH031 Contact with acids liberates toxic gas.

3 . COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

7681-52-9	Hypochlorous acid, sodium salt  Skin Corr. 1B, H314;  Aquatic Acute 1, H400	10-<30%
1310-73-2	Sodium hydroxide (Na(OH))  Skin Corr. 1A, H314	<1%
7732-18-5	Water	>60%

4 . FIRST AID MEASURES

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.

Skin Contact:

Remove contaminated clothing and wash affected areas with soap and water. Seek immediate medical attention. Launder clothing before reuse.

Eye Contact:

In case of eye contact, check for and remove any contact lenses. Immediately irrigate eyes with plenty of running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Ingestion:

If swallowed, do not induce vomiting. Wash mouth with water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Information for Doctor Treat symptomatically.

5 . FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

Specific Hazards Arising from the Chemical

Decomposes on heating emitting toxic chlorine fumes.

Non-combustible material. Substance releases oxygen when heated, which may increase the severity of an existing fire.

Use water spray to cool fire-exposed containers.

Special Protective Equipment and Precautions for Fire Fighters

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

6 . ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing. Evacuate all non-essential personnel from affected area. Ensure adequate ventilation. Do not breathe vapours.

(Contd. on page 3)

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 17.06.2013

Revision: 17.06.2013

Product Name: DOMESTIC GRADE BLEACH 4%

(Contd. of page 2)

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Slippery when spilt. Avoid accidents. Clean up immediately.

7 . HANDLING AND STORAGE

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Take precautionary measures against static discharge. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry, well ventilated place and out of direct sunlight. Keep containers closed when not in use. Protect from heat. Store away from incompatible materials. Check regularly for spills.

8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards (Safe Work Australia):**1310-73-2 Sodium hydroxide (Na(OH))**

NES	TWA: 2* mg/m ³ *Peak limitation
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7782-50-5 chlorine

NES	TWA: 3* mg/m ³ , 1* ppm *Peak limitation
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Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

Personal Protective Equipment (PPE):**Respiratory Protection:**

Use an Safe Work Australia approved full face supplied air respirator if high airborne concentrations of the material are present. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Impervious gloves, protective clothing, chemical resistant apron and safety boots. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

Eye and Face Protection:

Safety glasses with top and side shields or goggles. See Australian Standards AS/NZS 1336 and 1337 for more information.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form:	Liquid
Colour:	Pale yellow-green
Odour:	Slight chlorine odour
Odour Threshold:	No information available

(Contd. on page 4)

SAFETY DATA SHEET

According to Safe Work Australia

Printing date 17.06.2013

Revision: 17.06.2013

Product Name: DOMESTIC GRADE BLEACH 4%

(Contd. of page 3)

pH-Value:	12.5 (1% w/w)
Melting point/Melting range:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	Not applicable.
Flammability:	Not applicable.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Relative Density at 20 °C:	1.2
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Miscible

10 . STABILITY AND REACTIVITY

Possibility of Hazardous Reactions: No information available

Chemical Stability:

Slowly decomposes on contact with air. Rate increases with the concentration and temperature. Exposure to sunlight accelerates decomposition. Sodium hypochlorite becomes less toxic with age.

Conditions to Avoid: Direct sunlight, heat and exposure to air.

Incompatible Materials:

Ammonia (chloramine gas may evolve), amines, ammonium salts, aziridine, methanol, phenyl acetonitrile, cellulose, ethyleneimine, oxidizable metals, acids, soaps, and bisulfates.

Hazardous Decomposition Products: Decomposes on heating emitting toxic chlorine fumes.

11 . TOXICOLOGICAL INFORMATION

Toxicity:

LD₅₀/LC₅₀ Values Relevant for Classification:		
7681-52-9 Hypochlorous acid, sodium salt		
Oral	LD ₅₀	5800 mg/kg (mouse)
1310-73-2 Sodium hydroxide (Na(OH))		
Oral	LD ₅₀	2000 mg/kg (rat)

Acute Health Effects

Inhalation:

Breathing in mists or aerosols may produce respiratory irritation. Delayed (up to 48 hours). Fluid build up in the lungs may occur.

Skin: Contact with skin will result in severe irritation. Corrosive to skin. May cause skin burns.

Eye:

A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.

Ingestion:

Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

Skin Corrosion / Irritation: Causes severe skin burns.

Serious Eye Damage / Irritation: Causes eye damage.

(Contd. on page 5)

SAFETY DATA SHEET

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Printing date 17.06.2013

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(Contd. of page 4)

Respiratory or Skin Sensitisation: No sensitising effects known.**Germ Cell Mutagenicity:** No information available**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:** No information available**Specific Target Organ Toxicity (STOT) - Single Exposure:** No information available**Specific Target Organ Toxicity (STOT) - Repeated Exposure:** No information available**Aspiration Hazard:** No information available**Chronic Health Effects:** No information available**Existing Conditions Aggravated by Exposure:** No information available

12 . ECOLOGICAL INFORMATION

Ecotoxicity:

Very toxic to aquatic organisms. Expected to be harmful to terrestrial species. Avoid contaminating waterways.

Persistence and Degradability: No further relevant information available.**Bioaccumulative Potential:** No further relevant information available.**Mobility in Soil:** No further relevant information available.

13 . DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

14 . TRANSPORT INFORMATION

UN Number	
ADG, IMDG, IATA	1791
Proper Shipping Name	
ADG, IMDG, IATA	HYPOCHLORITE SOLUTION
Dangerous Goods Class	
ADG Class:	8 Corrosive substances.
Packing Group:	
ADG, IMDG, IATA	II
Hazchem Code:	2X
Special Provisions:	Not applicable
Limited Quantities:	1L
Packagings & IBCs - Packing Instruction:	P001, IBC02
Packagings & IBCs - Special Packing Provisions:	PP10, B5
Portable Tanks & Bulk Containers - Instructions:	T7

(Contd. on page 6)

SAFETY DATA SHEET

According to Safe Work Australia

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Revision: 17.06.2013

Product Name: DOMESTIC GRADE BLEACH 4%

(Contd. of page 5)

Portable Tanks & Bulk Containers - Special Provisions:

TP2, TP24

15 . REGULATORY INFORMATION

Australian Inventory of Chemical Substances:

7681-52-9	Hypochlorous acid, sodium salt
1310-73-2	Sodium hydroxide (Na(OH))
7732-18-5	Water

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
Poisons Schedule: 5

16 . OTHER INFORMATION

Creation Date: 17.06.2013**Last Revision of MSDS:** Rev 1.1 (16/06/2008)**Prepared by:** MSDS.COM.AU Pty Ltdwww.msds.com.au**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 VOC: Volatile Organic Compounds
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 IARC: International Agency for Research on Cancer
 STEL: Short Term Exposure Limit
 TWA: Time Weighted Average

Disclaimer

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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