



SAFETY DATA SHEET	
CUSTOM CHEMICALS INTERNATIONAL	Product: LIQUID LAUNDRY BLEACH
Date of Issue: DECEMBER 2012	Page 1 of Total 7

SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER:	Custom Chemicals International Pty Ltd		
ADDRESS:	103-107 Potassium Street, Narangba 4504 Queensland Australia		
Trade Name:	“POWER” LIQUID LAUNDRY BLEACH		
TELEPHONE:	+617 3204 8300	FAX:	+617 3204 8311
AHEMERGENCY TELEPHONE:	13 1126 in Australia	ABN:	73 050 537 674
Substance:	Water based cleaner	Product Use:	Bleach
Creation Date:	DECEMBER 2012	Revision Date:	DECEMBER 2017
Product Code:	0010176; 0051870[5L], 0051871[20L]		

SECTION 2 – HAZARDS IDENTIFICATION

- This product is **classified as HAZARDOUS** according to criteria of Safe Work Australia.
- This product is **NOT classified as Dangerous Goods** according to the Australian Dangerous Goods (ADG) Code.
- This product is **a Scheduled Poison** according to the SUSMP.

Approved Safe Work Australia Criteria Classification	Xi (Irritant) R31 Contact with acids liberates toxic gas R36/38 Irritating to skin and eyes R52 Harmful to aquatic organisms S1/2 Keep locked up and out of reach of children S26 In case of contact with eyes, rinse immediately with plenty of water and contact a Doctor or the Poisons Information Centre. S28 Avoid contact with skin, wash immediately with plenty of soap suds S37/39 Wear suitable gloves and eye/face protection S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label wherever possible) S50 Do not mix with acids S61 Avoid release to the environment. Refer to special instructions/Material Safety Data Sheets.		
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UN Number	None allocated	ADG Classification	None allocated
Shipping Name	None allocated	ADG Subsidiary Risk	None allocated
Hazchem Code	None allocated	Packing Group	None allocated
SUSMP Classification	Schedule 5		

EMERGENCY OVERVIEW

Colour	Straw	Odour	Chlorine
Physical Description	Liquid	Viscosity	Non-viscous liquid
Major Health Hazards	Irritant . eyes, skin, mucous membranes.		

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from Safe Work Australia publication **hazardous Substances Information System** or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication **Approved Criteria for Classifying Hazardous Substances**.

Ingredients:	CAS Number:	Proportion:	Exposure Standards TWA	Exposure Standards STEL
Sodium hypochlorite	7681-52-9	< 10% w/w	3 mg/m3 (1 ppm)	not set
Ingredients determined to be non-hazardous at the concentrations used	various	< 10% w/w	not set	not set
Water	7732-18-5	> 60% w/w	not set	not set



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The **TWA** exposure value is the Time Weighted Average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The **STEL** (Short Term Exposure Limit) is an exposure value that should not be exceeded for more than 15 minutes and should not be repeated for more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term **%peak** is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

SECTION 4 – FIRST AID MEASURES

Scheduled Poisons	Scheduled 5 Poison.
First Aid Facilities	Normal washroom facilities.
Skin contact	Wash skin with plenty of water. Remove contaminated clothing and wash before re-use. Seek medical advice (e.g. doctor) if irritation, burning or redness develops.
Eye contact	Immediately irrigate with copious quantities of water for at least 20 minutes. Eyelids to be held open. Seek medical advice (e.g. ophthalmologist).
Ingestion	Do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious person. Rinse mouth thoroughly with water immediately. Give water to drink. If vomiting occurs, give further water to achieve effective dilution. Seek medical advice (e.g. doctor).
Inhalation	Remove person to fresh air- avoid exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position, keep warm and to rest. Seek medical advice if required (e.g. doctor).
Advice to Doctor	Treat symptomatically. All treatments should be based on observed signs and symptoms of distress of the patient. Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons.
Aggravated Medical Conditions	None known.

SECTION 5 – FIRE FIGHTING MEASURES

Fire and Explosion Hazards	Water based. Not combustible. However if involved in a fire will emit toxic fumes.
Extinguishing Media	Use carbon dioxide (CO2) fire extinguisher, water fog or fine water spray.
Fire Fighting	Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion or decomposition. Evacuate area - move upwind of fire.
Flash Point	None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Emergency Procedures	No HAZCHEM code.
Occupational Release	Minor spills do not normally need any special clean-up measures. In the event of a major spill, prevent spillage from entering drains or water-courses. Wear appropriate protective equipment as in section 8 below to prevent skin and eye contamination. Spilt material may result in a slip hazard and should be absorbed into dry, inert material (e.g. sand, earth or vermiculite), which then can be put into appropriately labelled drums for disposal by an approved agent according to local conditions. Residual deposits will remain slippery. Wash area down with excess water. If contamination of sewers or waterways has occurred advise the local emergency services. In the event of a large spillage notify the local environment protection authority or emergency services.

SECTION 7 – HANDLING AND STORAGE



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Handling Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with water after handling.

Storage Store in a cool, dry, place with good ventilation. Avoid storing in aluminium and light alloy containers. Store away from incompatible materials (Section 10). Keep containers closed at all times . check regularly for leaks.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits National Occupational Exposure Limits, as published by Safe Work Australia:
Time-weighted Average (TWA): None established for specific product.
 See **SECTION 3** for Exposure Limits of individual ingredients.
Short Term Exposure Limit (STEL): None established for specific product.
 See **SECTION 3** for Exposure Limits of individual ingredients.

Biological Limit Value None established for product.

Engineering Controls Ensure ventilation is adequate to maintain air concentrations below exposure standards. Avoid generating mists of the product. Use only in a well-ventilated area. Ensure airflow, where this product is used, is directed away from the operators.

Personal Protective Equipment This product is classified as a non-hazardous cleaning liquid. Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. Final choice of appropriate protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. The following protective equipment should be available;

Eye Protection The use of safety glasses with side shield protection, goggles or face shield is recommended to handle in quantity, cleaning up spills, decanting, etc. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.



Skin Protection Wear gloves. Overalls, apron, work boots and elbow length gloves are recommended for handling the concentrated product (as per AS/NZS 2161, or as recommended by supplier) to handle in quantity, cleaning up spills, decanting, etc.



Protective Material Types Material suitable for detergent contact . Butyl rubber, Natural Latex, Neoprene, PVC, and Nitrile.

Respirator Not required for normal cleaning operations with adequate ventilation. Where high contaminant spray mist or vapour levels exist, ie, approaching the exposure limit, the following additional equipment is required: For short elevated exposures, eg, spillages:- Appropriate organic vapour cartridge respirator as per the requirements of AS/NZS 1715 and AS/NZS 1716 (Respiratory protective devices). For prolonged exposure and confined spaces:- full face air supplied or self contained breathing apparatus (if vapour levels exceed the Exposure Limit by more than ten times, air supplied apparatus should be used).



SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Non-viscous liquid	Colour	Straw
Odour	Faint chlorine odour.	Specific Gravity	1.0 . 1.1 @ 25 °C
Boiling Point	Approximately 100 °C.	Freezing Point	Approximately 0 °C
Vapour Pressure	Not available	Vapour Density	Not available.
Flash Point	Not flammable	Flammable Limits	None
Water Solubility	Miscible in all proportions.	pH	>12
Volatile Organic Compounds (VOC)	0 % v/v.	Coefficient of Water/Oil Distribution	Not available.



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Viscosity
Evaporation Rate

Not available.
Not available.

Odour Threshold
Per Cent Volatile

Not available.
Ca 90 % v/v.

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability	Stable at normal temperatures and pressure.
Conditions to Avoid	ACIDS: violent reaction can occur, yielding heat and pressure which can burst an enclosed container. Attacks many reactive metals (aluminium/magnesium/zinc alloys) releasing highly flammable gas (hydrogen) which generates fire or explosion hazards. Reacts slowly with ambient air (particularly carbon dioxide) which may cause certain insoluble salts to form in solutions.
Incompatible Materials	Incompatible with amines, ammonium salts, aziridine, methanol and phenylacetonitrile. Reacts with metal salts, peroxides and reducing agents. Reacts violently with acids.
Hazardous Decomposition Products	Product can decompose on combustion to form Carbon Monoxide, Carbon Dioxide, and other possibly toxic gases and vapours on burning. Reacts vigorously with acids producing dangerous levels of gaseous chlorine.
Hazardous Reactions	Reacts vigorously with acids producing dangerous levels of gaseous chlorine.

SECTION 11 – TOXICOLOGICAL INFORMATION

PRODUCT MIXTURE INFORMATION

Local Effects	Irritant: eye, skin, mucous membranes- contact, inhalation and ingestion.
Target Organs	Eyes, mucous membranes, skin, lungs.

POTENTIAL HEALTH EFFECTS

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

Ingestion

short term exposure	Swallowing can result in nausea, vomiting of blood and eroded tissue; chemical burns of the mouth, throat & abdomen.
long term exposure	No information available. There have been no documented effects due to long-term exposure.

Skin contact

short term exposure	Irritant to skin - may cause irritation. Severity depends on the concentration and duration of exposure.
long term exposure	Prolonged and repeated skin contact with diluted solutions may induce eczematoid dermatitis.

Eye contact

short term exposure	Irritant to eyes; contact can cause corneal burns.
long term exposure	Repeated overexposure may lead to chronic conjunctivitis.

Inhalation

short term exposure	Inhalation of mists or aerosols can produce mucous membrane and respiratory irritation.
long term exposure	Repeated overexposure may lead to increased susceptibility to respiratory illness.

Carcinogen Status

Safe Work Australia	No significant ingredient is classified as carcinogenic by Safe Work Australia.
NTP	No significant ingredient is classified as carcinogenic by NTP.
IARC	No significant ingredient is classified as carcinogenic by IARC.
Medical conditions aggravated by exposure	Persons with pre-existing skin disorders or eye problems, or impaired kidney or respiratory function may be more susceptible to the effects of the substance.

CLASSIFICATION OF INDIVIDUAL INGREDIENTS

Individual Ingredient Information



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NOTE : This information relates to each individual ingredient, when evaluated as pure undiluted chemical. See Section 3 for actual proportions present in the product.

Ingredients	R-Phrases.
Sodium hypochlorite	R34, R31, R50

100% SODIUM HYPOCHLORITE	
Irritation Data	CORROSIVE . causes burns. An alkaline poison and primary irritant to mucous membranes, throat and gastrointestinal tract and respiratory tract.
Toxicity Data	Oral LD50(rat) = 8910 mg/kg
Local Effects	Corrosive: inhalation, skin, eye, ingestion
Target Organs	Skin, mucous membranes, respiratory system, eyes.
Acute Toxicity Level	Moderately Toxic: ingestion and inhalation.
Reproductive Effects	No information.
Carcinogen Data	No information. Not classed as a carcinogen by Safe Work Australia.
Mutagenic Data	No information.

SECTION 12 – ECOLOGICAL INFORMATION

Fish toxicity	Sodium Hypochlorite: LC50 (fish) 0.07-5.9 mg/L.
Algae toxicity	None available.
Invertebrates toxicity	None available.
Toxicity to Bacteria	None available.
OECD Biological degradation	Individual components stated to be biodegradable.
General	Product miscible in all proportions with water. AS WITH ANY CHEMICAL PRODUCT, DO NOT DISCHARGE BULK QUANTITIES INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT. Inform local authorities if this occurs.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal	To dispose of quantities of undiluted product, refer to State Land Waste Management Authority. Transfer product residues to a labelled, sealed container for disposal or recovery. Waste disposal must be by an accredited contractor. As with any chemical, do not put down the drain in quantity. The small quantities contained in wash solutions (when used as directed) can generally be handled by conventional sewage systems, septic, and grey water systems. For larger scale use, eg. Commercial laundry operations, a recycled water system is often recommended, or Trade Waste License obtained for disposal to sewer.
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SECTION 14 – TRANSPORT INFORMATION

UN Number	None allocated	ADG Classification	None allocated
Shipping Name	None allocated	ADG Subsidiary Risk	None allocated
Hazchem Code	None allocated	Packing Group	None allocated
Packaging Method	None allocated	Special Provisions	None allocated
Segregation	None allocated		

SECTION 15 – REGULATORY INFORMATION

AICS	All ingredients present on AICS.
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Approved Safe Work
Australia Criteria
Classification
Hazard Category
Risk Phrases

HAZARDOUS

Safety Phrases

Xi (Irritant)
R31 Contact with acids liberates toxic gas
R36/38 Irritating to skin and eyes
R52 Harmful to aquatic organisms
S1/2 Keep locked up and out of reach of children
S26 In case of contact with eyes, rinse immediately with plenty of water and contact a Doctor or the Poisons Information Centre.
S28 Avoid contact with skin, wash immediately with plenty of soap suds
S37/39 Wear suitable gloves and eye/face protection
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label wherever possible)
S50 Do not mix with acids
S61 Avoid release to the environment. Refer to special instructions/Material Safety Data Sheets.

SUSMP

Schedule 5 Poison
S5 (CHLORINATING COMPOUNDS)
Signal word: CAUTION
Cautionary
Statement/s: KEEP OUT OF REACH OF CHILDREN
DO NOT SWALLOW
READ SAFETY DIRECTIONS

First Aid: **A**-For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor (at once).

G3- If swallowed, DO NOT induce vomiting.

E2-If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor, or for at least 15 minutes.

S1-If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Warning: **11**. WARNING: Vapour may be harmful. **20**. May give off dangerous gas if mixed with other products.

Safety Directions: **1**- Avoid contact with eyes. **4**- Avoid contact with skin. **10**. Ensure adequate ventilation when using.

ADG Code

None allocated

SECTION 16 – OTHER INFORMATION

Acronyms

SUSMP

Standard for the Uniform Scheduling of Medicines and Poisons.

ADG Code

Australian Code for the Transport of Dangerous Goods by Road and Rail.

CAS Number

Chemical Abstracts Service Registry Number.

UN Number

United Nations Number.

R-Phrases

Risk Phrases.

HAZCHEM

An emergency action code of numbers and letters which gives information to emergency services.



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NOHSC	National Occupational Health and Safety Commission.
NTP	National Toxicology Program (USA).
IARC	International Agency for Research on Cancer.
AICS	Australian Inventory of Chemical Substances.
TWA	Time Weighted Average
STEL	Short Term Exposure Limit
Literature References	Australian Code For The Transport Of Dangerous Goods By Road And Rail . Seventh Edition. Standard for the Uniform Scheduling of Medicines and Poisons 2011. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)] Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)] Material Safety Data Sheets . individual raw materials . Suppliers. HSIS . Hazardous Substance Information System . National Worksafe Data Base.
Revision Information	New Issue to standard: 2nd Edition [NOHSC:2011(2003)].
Note	Safety Data Sheets are updated frequently. Please ensure that you have a current copy.
Contact Point	Regulatory Affairs Manager. Telephone (07) 3204 8300
Issue Date	DECEMBER 2012 Supersedes Issue Date DECEMBER 2007

This SDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this supplier.