



MATERIAL SAFETY DATA SHEET

BLEACH LIQUID

SECTION 1: IDENTIFICATION

PRODUCT NAME: BLEACH LIQUID / BLEACH

Product Codes: 3x5L plastic drum: 636080700

1x15L plastic drum: 636080800

Recommended Use: Chlorinated laundry Bleaching Agent

SUPPLIER:

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SECTION 2: HAZARDS IDENTIFICATION

HAZARDOUS

According to criteria of:

National Occupational Health & Safety Commission NOHSC

HAZARDS CLASSIFICATION: CORROSIVE

NOT DANGEROUS GOODS

According to criteria of:

Australian Dangerous Code for Transport by Road & Rail

DANGEROUS GOODS CLASSIFICATION: None Allocated

CLASSIFIED AS A POISON: S5

According to criteria of:

Standard for the Uniform Scheduling of Drugs and Poisons

RISK PHRASES

R31 - CONTACT WITH ACIDS LIBERATES TOXIC GAS

SAFETY PHRASES

S2 - KEEP OUT OF REACH OF CHILDREN

S24/25 - AVOID CONTACT WITH SKIN AND EYES

S26 - AFTER CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE

S27 - TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING

S28 - AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE IF NECESSARY

S37/39 - WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION

S50 - DO NOT MIX WITH ACIDS

S61 - AVOID RELEASE TO THE ENVIRONMENT

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS		
Chemical Entity	CAS No	Proportion (%)
Sodium Hypochlorite	[7681-52-9]	4 - 10%
Sodium Hydroxide	[1310-73-2]	<5%

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF NECESSARY MEASURES ACCORDING TO ROUTES OF EXPOSURE

Swallowed

DO NOT induce vomiting. Immediately rinse out mouth with water. For advice, contact Poisons Information Centre (Phone Australia 13126; New Zealand 0800 764 766) or a Doctor.

Eye

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a Doctor, or for at least 15 minutes.

Skin

If skin or Hair contact occurs, remove contaminated clothing and flush Skin and Hair with running water.

Inhaled

Not considered a probable path of exposure. If breathing is affected remove victim to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

ADVICE TO DOCTOR

Treat symptomatically based on the individual reactions of patients and judgement of a Doctor.

NOTE: For advice in an emergency, contact the Poisons Information Centre in Australia 13-11-26 or New Zealand 0800-764-766

ADDITIONAL INFORMATION

AGGRAVATED MEDICAL CONDITIONS CAUSED BY EXPOSURE

No information is available on medical conditions, which are aggravated from exposure to this product.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

In case of fire, appropriate extinguishing media include Dry Chemical, Foam, Carbon Dioxide and Water Fog. Use Water to keep fire-exposed containers cool and to protect personnel

HAZARDS FROM COMBUSTION PRODUCTS

The product is Not Combustible under normal conditions. When involved in a fire, this product may generate Carbon Dioxide and Carbon Monoxide. Stable under ordinary conditions of use and storage. Incompatible with Oxidizing Agents and Acids

SPECIAL PROTECTIVE PRECAUTIONS AND EQUIPMENT FOR FIRE FIGHTERS

No specific data is available.

FLAMMABILITY CONDITIONS

Product is aqueous and is not considered Combustible.

HAZCHEM Code: None Allocated

SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURES

Persons involved in a major spill clean up should wear appropriate personal protective equipment. Isolate hazard area and stop leaks if safe to do so. Avoid walking through spilled product, as it may be slippery. Keep unnecessary and unprotected personnel from entering the area. DO NOT allow product to enter drains or waterways.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as sawdust or cellulose. Do not flush to sewer.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Ensure an eye bath and safety shower is available and ready for use. Observe good personal hygiene practices and recommended procedures. Avoid prolonged contact with skin. Avoid contact with eyes.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBLES

Protect against physical damage. Store in a cool, dry well-ventilated area. Separate from oxidizing materials and acids.

CONTAINER TYPE

Store in original containers.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

NATIONAL EXPOSURE STANDARDS

	Chlorine	Sodium Hydroxide
TWA (mg/m ³)	3.0 (peak 1ppm)	2.0 mg/m ³

BIOLOGICAL LIMIT VALUES

No Data Available

ENGINEERING CONTROLS

Natural ventilations should be adequate under normal conditions of use.

PERSONAL PROTECTION

Respiratory protection

Not considered necessary under normal conditions of use.

Skin protection

Wear suitable gloves. When cleaning up significant spills wear protective clothing including boots, gloves, lab coat, or coveralls, as appropriate, to prevent excessive skin contact.

Eye protection

Where a risk of splashing exists or when cleaning up significant spills wear chemical safety goggles. Maintain eyewash and quick-drench facilities in work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A clear Yellow Viscous Liquid
Odour	Odour of Chlorine
Solubility in water	Miscible
Specific Gravity	1.03 - 1.06
pH (as is)	13 - 14
pH (1% Aqueous Solution)	No Data Available
Viscosity (@ 20°C)	No Data Available
Flash Point (°C)	Approximately 100°C
Volatile Organic Compounds (VOC) content	Essentially none
Evaporation Rate	No Data Available
Percent Volatile	No Data Available

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY

Product is stable under normal conditions of handling, storage and use.

CONDITIONS TO AVOID

No information is available for this product.

INCOMPATIBLE MATERIALS

Incompatible with Acids

HAZARDOUS DECOMPOSITION PRODUCTS

No information is available for this product.

HAZARDOUS REACTIONS

No information is available for this product.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA

Chlorine

Sodium Hydroxide

LD₅₀ oral (rat): 5300mg/kg

Lethal Dose oral (man): 5 g

LD₅₀ Skin (rabbit): > 6310 mg/kg
irritation

Eye (rabbit): 500mg 24h; severe

Eye (rabbit): 24h; moderate irritation
irritation

Skin (rabbit): 1mg/30secs; severe

Skin (rabbit): 24h; moderate irritation

HEALTH EFFECTS – ACUTE

Swallowed

This product is harmful by ingestion when assessed against criteria of Worksafe Australia. However, the product may cause irritation to the gastrointestinal tract. Symptoms may include pain, nausea, vomiting and diarrhoea.

Eye

This product is an eye irritant when assessed against criteria of Worksafe Australia. The product will cause immediate irritation and discomfort when splashed into eyes that may include, redness, stinging and swelling. Permanent damage may result if first aid is not performed expeditiously.

Skin

This product is a skin irritant when assessed against criteria of Worksafe Australia. Direct skin contact will produce skin irritation and discomfort if not washed off with water. The skin may appear red and become sore. Sensitive individuals may experience skin cracking and scaling.

Inhaled

This product is not expected to be a respiratory tract irritant under normal conditions of use.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

No Data is available for this product.

PERSISTANCE AND DEGRADABILITY

No information is available on the persistence and degradability of this product.

MOBILITY

DO NOT allow product to enter Waterways, Drains and Sewers.

ENVIRONMENTAL FATE (Exposure)

No information is available for this product.

BIOACCUMULATION POTENTIAL

No information is available on the Bioaccumulation Potential of this product.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS AND CONTAINERS

Dispose of in accordance with all local, state and federal regulations. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.

SPECIAL PRECAUTIONS FOR LANDFILL AND INCINERATION

No Data Available

14. TRANSPORT INFORMATION

UN No: None
Shipping Name: Not Regulated
DANGEROUS GOODS CLASS: Not Regulated
Subsidiary Risk: Not Regulated
Packaging Group: Not Regulated
HAZCHEM Code: Not Regulated
PRECAUTIONS For User: Not Regulated

15. REGULATORY INFORMATION

Poisons Schedule: S5
EPG: Not Regulated
AICS Name: Not Regulated
NZ Toxic Substance: No Data

16. OTHER INFORMATION

LEGEND TO ABBREVIATIONS AND ACRONYMS

<	Less than
>	Greater than
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (Registry Number)
LC50	LC stands for lethal concentration. LC50 is the concentration of a material in air, which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
LD50	LD stands for "Lethal Dose". LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals
NIOSH	National Institute for Occupational Safety and Health
NOHSC	National Occupational Health and Safety Commission
OECD	Organization for Economic Co-operation and Development
PEL	Permissible Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average
UN No	United Nations (number)

Immiscible	Liquids are insoluble in each other
Miscible	Liquids form one homogeneous liquid phase regardless of the amount of either component present
mm	Millimetre
ppb	Parts per billion
ppm	Parts per million

LITERATURE REFERENCES and SOURCES of DATA

List of Designated Hazardous Substances [NOHSC (National Occupational Health & Safety Commission)]

Approved Criteria for Classifying Hazardous Substances [NOHSC (National Occupational Health & Safety Commission)]

National Code of Practice for the Control of Workplace Hazardous Substances [HOHSC: 2007 (1994)]

National Standards for the Storage and Handling of Workplace Dangerous Goods [HOHSC: 1015 (2001)]

Exposure Standards Database [NOHSC (National Occupational Health & Safety Commission)]

Australian Dangerous Goods Code for Transport of Road & Rail [ADG Code: Sixth Addition Vol 1 & Vol 2]

Standards for the Uniform Scheduling of Drugs & Poisons [National Drugs and Poisons Committee Publication 23rd Addition June 2008]

AUSTRALIAN / NZ STANDARDS

AS3780: The Storage & Handling of Corrosive Substances

AS/NZS 3833: The Storage & Handling of Mixed Classes of Dangerous Goods in Packages & Intermediate Bulk Containers

END OF MSDS

Last Updated: June 2011

Revised By: Pelikan Artline Pty Ltd



This MSDS summarises Pelikan Artline Pty Ltd best knowledge of the health and safety hazard information of the selected substance and how to safely handle the selected substance in the workplace however Pelikan Artline Pty Ltd expressly disclaims that the MSDS is a representation or guarantee of the chemical specifications for the substance. Each user should read the MSDS and consider the information in the context of how the selected substance will be handled and used in the workplace including its use in conjunction with other substances.

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