

SAFETY DATA SHEET Chloral

SECTION 1: Identification: Product identifier and chemical identity	
Product identifier	
Product name	Chloral
Internal identification	CHLORAL
Relevant identified uses of th	e substance or mixture and uses advised against
Application	Thickened bleaching and sanitising product
Uses advised against	Use only for intended applications.
Details of the supplier of the s	safety data sheet
Supplier	Sampson Chemical Products 42 Redcliffe Gardens Drive Clontarf, QLD, 4019 +61 7 3283 4511 sampson_office@bigpond.com
Contact Person	Poisons Information 131126 or Brennan Stark 0428 835 855
Manufacturer	Eco Pro Australia Pty Ltd 42 Redcliffe Gardens Drive, Clontarf, QLD, 4019 +61 7 3283 4511 sampson_office@bigpond.com
Emergency telephone numbe	r.
Emergency telephone	Poisons Information 131126 or Brennan Stark 0428 835 855
SECTION 2: Hazard(s) identif	fication
Classification of the substance	
	<u>e or mixture</u>
Physical hazards	Not Classified
Physical hazards Health hazards	
-	Not Classified
Health hazards	Not Classified Skin Corr. 1B - H314 Eye Dam. 1 - H318
Health hazards Environmental hazards	Not Classified Skin Corr. 1B - H314 Eye Dam. 1 - H318
Health hazards Environmental hazards <u>Label elements</u>	Not Classified Skin Corr. 1B - H314 Eye Dam. 1 - H318

Precautionary statements	P260 Do not breathe vapour/ spray.
recutionary statements	P264 Wash contaminated skin thoroughly after handling.
	P273 Avoid release to the environment.
	P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
	P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
	Rinse skin with water/ shower.
	P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position
	comfortable for breathing.
	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 medical advice on this label).
	P363 Wash contaminated clothing before reuse.
	P391 Collect spillage.
	P405 Store locked up.
	P501 Dispose of contents/ container in accordance with national regulations.
Contains	Sodium Hypochlorite, Amines, coco alkyldimethyl, N-oxides, Caustic Soda

Other hazards

This product does not contain any substances classified as PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative).

SECTION 3: Composition and information on ingredients	
Mixtures	
Alcohols, C10-16, ethoxylated, sulfates, sodium salts	1-10%
CAS number: 68585-34-2	
Sodium Hypochlorite	1-10%
CAS number: 7681-52-9	
Amines, coco alkyldimethyl, N-oxides	1-10%
CAS number: 61788-90-7	
Caustic Soda	1-10%
CAS number: 1310-73-2	

SECTION 4: First aid measures

Description of first aid measures

General information	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. Chemical burns must be treated by a physician.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. Rinse nose and mouth with water. Never give anything by mouth to an unconscious person. Get medical attention if symptoms are severe or persist.
Ingestion	Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Get medical attention.

Skin Contact	It is important to remove the substance from the skin immediately. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention. Chemical burns must be treated by a physician.
Eye contact	Rinse immediately with plenty of water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.
Protection of first aiders	It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation.
Most important symptoms and	effects, both acute and delayed
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	A single exposure may cause the following adverse effects: Corrosive to the respiratory tract. Symptoms following overexposure may include the following: Severe irritation of nose and throat.
Ingestion	May cause chemical burns in mouth, oesophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting.
Skin contact	Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur.
Eye contact	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.
Indication of any immediate me	dical attention and special treatment needed
Notes for the doctor	Treat symptomatically.
SECTION 5: Firefighting measu	
SECTION 5: Firefighting measu Extinguishing media	
Extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry
Extinguishing media Suitable extinguishing media Unsuitable extinguishing	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire.
Extinguishing media Suitable extinguishing media Unsuitable extinguishing media	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire.
Extinguishing media Suitable extinguishing media Unsuitable extinguishing media Special hazards arising from th	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire. E substance or mixture Containers can burst violently or explode when heated, due to excessive pressure build-up. Severe corrosive hazard. Water used for fire extinguishing, which has been in contact with the
Extinguishing media Suitable extinguishing media Unsuitable extinguishing media <u>Special hazards arising from th</u> Specific hazards Hazardous combustion	The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire. Example to a substance or mixture Containers can burst violently or explode when heated, due to excessive pressure build-up. Severe corrosive hazard. Water used for fire extinguishing, which has been in contact with the product, may be corrosive. Thermal decomposition or combustion products may include the following substances: Very

Special protective equipment for firefighters	Regular protection may not be safe. Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to Australia/New Zealand Standards AS/NZS 4967 (for clothing) AS/NZS 1801 (for helmets), AS/NZS 4821 (for protective boots), AS/NZS 1801 (for protective gloves) will provide a basic level of protection for chemical incidents.
Hazchem Code	2X
SECTION 6: Accidental release	e measures
Personal precautions, protectiv	re equipment and emergency procedures
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Avoid inhalation of dust and vapours. Use suitable respiratory protection if ventilation is inadequate. Avoid contact with skin and eyes.
Environmental precautions	
Environmental precautions	Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.
Methods and material for conta	ainment and cleaning up
Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. This product is corrosive. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.
Reference to other sections	
Reference to other sections	For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.
SECTION 7: Handling and stor	age, including how the chemical may be safely used
Precautions for safe handling	
Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. This product is corrosive. Immediate first aid is imperative. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.
Conditions for safe storage, inc	luding any incompatibilities
Storage precautions	Store locked up. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage.
Storage class	Corrosive storage.
Specific end use(s)	
Specific end use(s)	The identified uses for this product are detailed in Section 1.

SECTION 8: Exposure control	Is and personal protection
Control parameters Occupational exposure limits Caustic Soda Ceiling value: 2 mg/m ³	
Exposure controls	
Protective equipment	
Appropriate engineering controls	Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full- face respirator may be required instead.
Hand protection	Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with Australia/New Zealand Standard AS/NZS 2161. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	Wash hands thoroughly after handling. Wash at the end of each work shift and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	Ensure all respiratory protective equipment is suitable for its intended use and complies with Australia/New Zealand Standard AS/NZS 1716. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716. Full face mask respirators with replaceable filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716. Full face mask respirators with replaceable filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716. Half mask and quarter mask respirators with replaceable filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716.
Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
SECTION 9: Physical and che	emical properties
Information on basic physical	and chemical properties
Appearance	Viscous liquid.
Colour	Pale Yellow
Odour	Chlorine.
рН	>12
Specific Gravity	1.15
SECTION 10: Stability and rea	activity

development

Reactivity	Avoid any contamination of this product as it is very reactive and any contamination is potentially hazardous Contact with acids, organics, reducing agents (eg. amines), metallic powders and heat sources produces toxic fumes of chlorine. May be decomposed by hot water releasing chlorine fumes.
Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Possibility of hazardous reactions	No hazardous reactions under normal product usage conditions.
Conditions to avoid	Avoid heat, flames and other sources of ignition.
Materials to avoid	Avoid any contamination of this product as it is very reactive and any contamination is potentially hazardous Contact with acids, organics, reducing agents (eg. amines), metallic powders and heat sources produces toxic fumes of chlorine. May be decomposed by hot water releasing chlorine fumes.
Hazardous decomposition products	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Corrosive gases or vapours.
SECTION 11: Toxicological info	ormation
Information on toxicological effe	ects
Acute toxicity - oral	
Notes (oral LD₅₀)	Based on available data the classification criteria are not met.
<u>Acute toxicity - dermal</u> Notes (dermal LD50)	Based on available data the classification criteria are not met.
<u>Acute toxicity - inhalation</u> Notes (inhalation LC50)	Based on available data the classification criteria are not met.
<u>Skin corrosion/irritation</u> Animal data	Skin Corr. 1B - H314 Causes severe burns.
<u>Serious eye damage/irritation</u> Serious eye damage/irritatio	n Eye Dam. 1 - H318 Corrosive to skin. Corrosivity to eyes is assumed.
<u>Respiratory sensitisation</u> Respiratory sensitisation	Based on available data the classification criteria are not met.
<u>Skin sensitisation</u> Skin sensitisation	Based on available data the classification criteria are not met.
<u>Germ cell mutagenicity</u> Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Carcinogenicity	
Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.
<u>Reproductive toxicity</u> Reproductive toxicity - fertili	ty Based on available data the classification criteria are not met.
Reproductive toxicity -	Based on available data the classification criteria are not met.

<u>Specific target organ toxicity -</u>	single exposure
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity -	repeated exposure
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard Aspiration hazard	Based on available data the classification criteria are not met.
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Corrosive to the respiratory tract. Symptoms following overexposure may include the following: Severe irritation of nose and throat.
Ingestion	May cause chemical burns in mouth, oesophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting.
Skin Contact	Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur.
Eye contact	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target Organs	No specific target organs known.
SECTION 12: Ecological inform	nation
Tovicity	Aquetic Agute 1 H400 Ven/ taxis to equatic life
Toxicity	Aquatic Acute 1 - H400 Very toxic to aquatic life.
Persistence and degradability	
_	ty The degradability of the product is not known.
Bioaccumulative potential	
Bioaccumulative Potential	No data available on bioaccumulation.
<u>Mobility in soi</u> l	
Mobility	No data available.
Other adverse effects	
Other adverse effects	None known.
SECTION 13: Disposal consid	erations
Waste treatment methods	
General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: Transport inform	SECTION 14: Transport information	
UN number		
UN No. (ADG)	1760	
UN No. (IMDG)	1760	
UN No. (ICAO)	1760	
UN proper shipping name		
Proper shipping name (ADG	CORROSIVE LIQUID, N.O.S. (CONTAINS Caustic Soda, Sodium Hypochlorite)	
Proper shipping name (IMDG)	CORROSIVE LIQUID, N.O.S. (CONTAINS Caustic Soda, Sodium Hypochlorite, Amines, coco alkyldimethyl, N-oxides)	
Proper shipping name (ICAC) CORROSIVE LIQUID, N.O.S. (CONTAINS Caustic Soda, Sodium Hypochlorite)	
Transport hazard class(es)		
ADG class	8	
ADG classification code	C9	
ADG label	8	
IMDG class	8	
ICAO class/division	8	
Transport labels		
B		
Packing group		
ADG packing group	II	
IMDG packing group	II	
ICAO packing group	II	
Environmental hazards		
Environmentally hazardous substance/marine pollutant		
Special precautions for user		
EmS	F-A, S-B	
Hazchem Code	2X	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.	
SECTION 15: Regulatory infor	SECTION 15: Regulatory information	
Inventories		

Australia - AICS

None of the ingredients are listed or exempt.

SECTION 16: Any other relevant information	
Training advice	Only trained personnel should use this material.
Revision date	13/05/2021
Revision	5
Supersedes date	16/05/2019
SDS No.	4654
General Information	The following risk and hazard statements are to be considered a glossary. They relate to the raw materials used in this product and therefore may not be accurate for the finished product itself. For the complete risk and hazard statements for this product please refer to section 2 of this Safety Data Sheet
Hazard statements in full	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H400 Very toxic to aquatic life.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.