Solo Pak Chlor Clean

Compilation Date: 1 January 2006 Issue Date: 22 November 2016

Revision No: 2.0

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1. Chemical Product and Company Identification

Product Name Chlor Clean 20lt: 44-556

Product Use Heavy duty cleaning of food processing equipment.

Supplier Solo Pak Pty Ltd 29 076 652 269

Mail Address PO Box 67, Brisbane Markets QLD, 4106

Email sales@solopak.com.au

Telephone: 1300 307 755

Emergency Poisons Information Centre (National) 131126

Telephone:

2. Hazards Identification

Statement of Hazardous Nature

This product is classified as: N, Dangerous to the environment. C, Corrosive. Hazardous according to the criteria of SWA.

Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

ADG Classification: Class 8: Corrosive Substances.

UN Number: 1824, Sodium Hydroxide Solution N.O.S. (Sodium hypochlorite)

Packaging Group

Poisons Schedule Not Applicable

GHS Label Elements







SIGNAL WORD

DANGER

Acute Toxicity Oral – Category 4 Skin corrosion – Category 1 Eye corrosion – Category 1

Hazard Statement(s)

H302 Harmful if swallowed.

H312 Causes severe skin burns and eye damage.

H401 Toxic to aquatic life.

Prevention(s)

P102 Keep out of reach of children.

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P260	Do not breathe fumes, mists, vapours or spray.
P264	Wash contacted areas thoroughly after handling.
P270	Do not eat, drink, or smoke when using this
	product.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing and
	eye or face protection.

Refer to the SDS before using this product

Response

P301+P312:	IF SWALLOWED: Call a POISON CENTRE or
P301+P330+P331	doctor if you feel unwell IF SWALLOWED: Rinse mouth. Do NOT induce
1 30111 33011 331	vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove immediately all
	contaminated clothing. Rinse skin with water.
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 CENTRE phone
	Australia 131 126 or doctor/physician.
P330	Rinse mouth.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
0.	
Storage	

Storage

P405 Store locked up

Disposal

P501

If they can not be recycled, dispose of contents to an approved waste disposal plant and containers to landfill (see Section 13 of this SDS).

3. Composition/Information on Ingredients

(Listed when present at 1% or greater, carcinogens at 0.1% or greater)

Chemical Name	CAS Registry Number	% Weight	Hazard Information
Sodium hypochlorite	7681-52-9	<5	H314 Causes severe skin burns and eye damage H400: Acute aquatic toxicity Category H305 STOT SE3
Sodium hydroxide	1310-73-2	<5	H290: May be corrosive to metals. H314: Causes severe skin burns and eye damage. H318: Causes serious eye damage.
Sodium Tripolyphosphate	7758-29-4	<5	H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation
Sodium lauroyl sarcosinate	137-16-6	<5	H330: Fatal if inhaled. H315: Causes skin irritation. H318: Causes serious eye damage. H317: May cause an allergic skin reaction.
Lauryl dimethyl amine oxide	1643-20-5	<5	H315: Causes skin irritation Eye Irritation, Cat 1 H318: Causes serious eye damage
Ingredients determined to be non-hazardous	various	10 - 30	None
Water	7732-18-5	> 60	None

The SWA TWA exposure value is the 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 may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated 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.

4. First Aid Measures

For Advice contact a Poisons Information Centre (phone eg. Australia 131126: New Zealand 0 800 764 766) or a Doctor.

Inhalation

If irritation occurs, contact a Poisons Information Centre, or call a doctor. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if

administered by trained personnel, preferably on a doctor's advice. In severe cases, symptoms of pulmonary oedema can

be delayed up to 48 hours after exposure.

Skin: Seek urgent medical attention. Flush contaminated area with

lukewarm, gently flowing water for at least 60 minutes, by the clock. DO NOT INTERRUPT FLUSHING. If necessary, keep emergency vehicle waiting (show paramedics this MSDS and take their advice). Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Strongly basic ingredients tend to penetrate the skin and so

need longer rinsing than other substances.

Eyes | Immediately flush the contaminated eye(s) with lukewarm, gently

flowing water for at least 60 minutes, by the clock, while holding

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the eyelid(s) open. Neutral saline solution may be used as soon

as it is available. DO NOT INTERRUPT FLUSHING. If

necessary, keep emergency vehicle waiting (show paramedics this MSDS and take their advice). Take care not to rinse contaminated water into the unaffected eye or onto face. Call a Poisons Information Centre or a doctor urgently. Take special

care if exposed person is wearing contact lenses.

If swallowed, do NOT induce vomiting; rinse mouth thoroughly Ingestion:

with water and contact a Poisons Information Centre. Urgent hospital treatment is likely to be needed. Give activated charcoal

if instructed.

First aid facilities Ensure eyewash and safety shower facilities are available in

workplace.

Advice to Doctor

Indication of any immediate medical attention and special treatment needed

For acute or short-term repeated exposures to highly alkaline materials:

Respiratory stress is uncommon but present occasionally because of soft tissue edema.

Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be

necessary.

Oxygen is given as indicated.

The presence of shock suggests perforation and mandates an

intravenous line and fluid administration.

Damage due to alkaline corrosives occurs by liquefaction necrosis whereby the saponification of fats and solubilisation of proteins allow deep penetration into the tissue.

Alkalis continue to cause damage after exposure.

Ingestion Milk and water are the preferred diluents

> No more than 2 glasses of water should be given to an adult. more than 2 glasses of water should be given to an adult.

Neutralising agents should never be given since exothermic heat

reaction may compound injury.

Catharsis and emesis are absolutely contra-indicated.

Activated charcoal does not absorb alkali. Gastric lavage should not be used. Supportive care involves the following:

Withhold oral feedings initially

If endoscopy confirms transmucosal injury start steroids only within the first 48 hours.

Carefully evaluate the amount of tissue necrosis before

assessing the need for surgical intervention.

Patients should be instructed to seek medical attention whenever they develop difficulty in swallowing (dysphagia).

Skin And Eye Injury should be irrigated for 20-30 minutes.

Eye injuries require saline. [Ellenhorn & Barceloux: Medical

Toxicology

5. Fire Fighting Measures

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Extinguishing Media

Water spray or fog.

Foam.

Dry chemical powder.

BCF (where regulations permit).

Carbon dioxide.

Special hazards arising from the substrate or mixture

Fire Incompatibility
Advice for firefighters

None known.

Fire Fighting Alert Fire Brigade and tell them location and nature of hazard.

Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or

water course.

Use fire fighting procedures suitable for surrounding area.

Do not approach containers suspected to be hot.

Cool fire exposed containers with water spray from a protected

location.

If safe to do so, remove containers from path of fire.

Non combustible.

Not considered a significant fire risk, however containers may

burn.

Fire/Explosion Hazard

Decomposes on heating and produces toxic fumes of chlorides

6. Accidental Release Measures

Minor Spills Clean up all spills immediately.

Avoid breathing vapours and contact with skin and eyes.

Control personal contact with the substance, by using protective

equipment.

Contain and absorb spill with sand, earth, inert material or

vermiculite. Wipe up.

Place in a suitable, labelled container for waste disposal.

Major Spills Clear area of personnel and move upwind.

Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or

water course.

Stop leak if safe to do so.

Contain spill with sand, earth or vermiculite.

Collect recoverable product into labelled containers for recycling.

7. Precautions for handling and storage

Safe Handling: DO NOT allow clothing wet with material to stay in contact with

skin

Avoid all personal contact, including inhalation. Wear protective

clothing when risk of exposure occurs.

Use in a well-ventilated area.

WARNING: To avoid violent reaction, ALWAYS add material to

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water and NEVER water to material.

Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke.

Other Information Store in original containers.

> Keep containers securely sealed. Store in a cool, dry, well-ventilated area.

Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for

leaks

Observe manufacturer's storage and handling recommendations

contained within this MSDS.

Conditions for safe storage, including any incompatibilities

Storage: Avoid storage of harmful substances with food.

Store out of reach of children.

Containers should be kept closed in order to minimise

contamination.

Store in a cool place.

Avoid contact with incompatible substances as listed in Section

Containers (and outer packaging) must bear the prescribed

labeling.

Segregate from strong acids Storage Incompatibilities

Contact with acids produces toxic fumes of chlorine

Package material incompatibilities

Not Available

8. Exposure controls /personal protection

Control parameters
OCCUPATIONAL EXPOSURE LIMITS (OEL) INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak
Australia Exposure Standards	potassium hydroxide	Potassium hydroxide	Not Available	Not Available	2 (mg/m3)

EMERGENCY LIMITS

Ingredient	TEEL-0	TEEL-1	TEEL-2	TE
sodium hypochlorite	0.6 / 0.075(ppm)	2 / 0.2(ppm)	1.5 / 50(ppm)	500
water	500(ppm)	500(ppm)	500(ppm)	500

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

This product should only be used in a well ventilated area. If Ventilation

natural ventilation is inadequate, use of a fan is suggested.

Your eyes must be completely protected from this product by Eye Protection

splash resistant goggles with face shield. All surrounding skin areas must be covered. Emergency eye wash facilities must also be available in an area close to where this product is

being used.

Because of the dangerous nature of this product, make sure Skin Protection

that all skin areas are completely covered by impermeable gloves, overalls, hair covering, apron and face shield. See

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below for suitable material types.

Protective Material

Types

We suggest that protective clothing be made from the following materials: rubber, Viton, nitrile, butyl rubber, Barricade, neoprene, Teflon, polyethylene, PE/EVAL,

Saranex, Responder.

Respirator

Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian

Standard mentioned above.

Safety deluge showers should, if practical, be provided near to

where this product is being handled commercially.

9. Physical and chemical properties

Appearance Clear water like liquid faint chlorine odour

pH 13.5 neat Vapour pressure: No data. Vapour Density: No data.

Boiling Point: Approximately 100°C (for liquid concentrate)

Boiling range No data.
Melting point No data.
Solubility in water Miscible

Specific Gravity: 1.05 – 1.1 @ 25 C Flash point Non Flammable

Solubility limits N/a

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 top

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.

11. Toxicological information

Health effects from acute exposure

Swallowed Corrosive. Can cause damage to throat, lungs and stomach.

Eye Corrosive and may cause severe or permanent eye damage,

Concentrated solutions can cause severe irritation and

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corrosion injury unless washed out immediately

Skin Irritating to skin. Brief contact may cause redness. Repeated or

prolonged contact may result in corrosion.

Inhaled Health effects from chronic exposure Can be irritating to the nose, throat and upper respiratory tract. Prolonged or repeated contact may cause dermatitis. No other specific data is available for the product for chronic exposure

symptoms.

Carcinogenicity No known effect
Mutagenicity No known effect
Teratogenicity No known effect

12. Ecological information

This product is harmful to aquatic organisms. This product will not accumulate in the soil or water or cause long term problems. However, until diluted or neutralised it will kill all aquatic organisms it contacts due to extreme pH.

13. Disposal considerations

Disposal Review federal, state and local government requirements prior to

disposal.

14. Transport Information

UN Number 1824

Proper Shipping Name | Sodium Hydroxide Solution

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DG Class

SUBSIDARY RISK none allocated

Packaging Group

Recommended Use Detergent for heavy duty cleaning of food process equipment.

15. Regulatory Information

AICS All of the significant ingredients in this formulation are compliant

with NICNAS regulations.

16. Other information

Abbreviations

ES

AICS Australian Inventory of Chemical Substances

CAS Number Unique Chemical Abstracts Service Registry Number

EC50 Ecotoxic Concentration 50% — concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)

Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed in a work day

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Globally Harmonised System of Classification and Labelling of GHS

Chemicals

HAZCHEM Code Emergency action code of numbers and letters that provide

information to emergency services, especially fire fighters

International Agency for Research on Cancer **IARC**

Lower Explosive Limit LEL

Lethal Dose 50% — dose which is fatal to 50% of a test population (usually rats). LD50

Lethal Concentration 50% — concentration in air which is fatal LC50

to 50% of a test population (usually rats)

National Industrial Chemicals Notification and Assessment **NICNAS**

Scheme

Peak Exposure Value: The maximum airborne concentration of **Peak Limitation**

a biological or chemical agent to which a worker may be

exposed at any time.

Safety Data Sheet SDS

Short Term Exposure Limit - The maximum airborne **STEL**

concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the

TWA is not exceeded

Time Weighted Average — generally referred to ES averaged **TWA**

over typical work day (usually 8 hours)

Upper Explosive Limit UEL **United Nations Number UN Number**

References

Unless otherwise stated comes from IUCLID datasheet for the Data

specific chemical.

National Occupational Health and Safety Commission 1995, NOHSC: 1003

Exposure Standards for Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment

[NOHSC:1003(199511

Jon Sprinkhuizen November 2016 Prepared By Date of Issue

Update SDS to GHS format Changes Made

References Australian Dangerous Goods Code Preparation of Safety Data

Sheets for Hazardous Chemicals Code of Practice 2011. Standard for the Uniform Scheduling of Medicines & Poisons

(SUSMP) Guidance

Australia 24 HOUR EMERGENCY CONTACT Poisons Contact Person/Point

Information Centre 13 11 26

Legal Disclaimer The above information is believed to be correct with respect to

the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS

INFORMATION.

End of SDS