

MICON MITEQ 303

Chemwatch Independent Material Safety Data Sheet
Issue Date: 14-Feb-2012
9317SP

CHEMWATCH 4655-39
Version No:5
CD 2011/4 Page 1 of 7

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

MICON MITEQ 303

PROPER SHIPPING NAME

HYPOCHLORITE SOLUTION

PRODUCT USE

Ready to use mould and mildew killer suitable for internal and external use.

SUPPLIER

Company: Micon Construction Products Pty Ltd

Address:

4/273 Wickham Road

Moorabbin

VIC, 3189

Australia

Telephone: +61 3 9532 5177

Fax: +61 3 9532 5168

Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

HAZARDOUS SUBSTANCE. DANGEROUS GOODS. According to the Criteria of NOHSC, and the ADG Code.

RISK

Risk Codes

R31

R34

R41

R50

Risk Phrases

- Contact with acids liberates toxic gas.

- Causes burns.

- Risk of serious damage to eyes.

- Very toxic to aquatic organisms.

SAFETY

Safety Codes

S01

S23

S24

S25

S36

S37

S39

S29

S40

S35

S27

S26

Safety Phrases

- Keep locked up.

- Do not breathe gas/fumes/vapour/spray.

- Avoid contact with skin.

- Avoid contact with eyes.

- Wear suitable protective clothing.

- Wear suitable gloves.

- Wear eye/face protection.

- Do not empty into drains.

- To clean the floor and all objects contaminated by this material, use water.

- This material and its container must be disposed of in a safe way.

- Take off immediately all contaminated clothing.

- In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.

- S45 • In case of accident or if you feel unwell IMMEDIATELY contact Doctor or Poisons Information Centre (show label if possible).

- S57 • Use appropriate container to avoid environmental contamination.

- S61 • Avoid release to the environment. Refer to special instructions/Safety data sheets.

- S60 • This material and its container must be disposed of as hazardous waste.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%
sodium hypochlorite	7681-52-9	10-30
sodium hydroxide	1310-73-2	0-0.99
other nonhazardous ingredients, including		

continued...

MICON MITEQ 303

Chemwatch Independent Material Safety Data Sheet
Issue Date: 14-Feb-2012
9317SP

CHEMWATCH 4655-39
Version No:5
CD 2011/4 Page 2 of 7

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

water	7732-18-5	>60
-------	-----------	-----

Section 4 - FIRST AID MEASURES

SWALLOWED

- If swallowed do NOT induce vomiting. Seek medical advice.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.

EYE

- If this product comes in contact with the eyes:
 - Immediately hold eyelids apart and flush the eye continuously with running water.
 - Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
 - Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
 - Transport to hospital or doctor without delay.

SKIN

- If skin contact occurs:
 - Immediately remove all contaminated clothing, including footwear.
 - Flush skin and hair with running water (and soap if available).
 - Seek medical attention in event of irritation.

INHALED

- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.

NOTES TO PHYSICIAN

- Treat symptomatically.
- For acute or repeated exposures to hypochlorite solutions:
- Release of small amounts of hypochlorous acid and acid gases from the stomach following ingestion, is usually too low to cause damage but may be irritating to mucous membranes. Buffering with antacid may be helpful if discomfort is evident.
 - Evaluate as potential caustic exposure.
 - Decontaminate skin and eyes with copious saline irrigation. Check exposed eyes for corneal abrasions with fluorescein staining.
 - Emesis or lavage and catharsis may be indicated for mild caustic exposure.

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- Water spray or fog.
- Foam.
- Dry chemical powder.
- BCF (where regulations permit).

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.

FIRE/EXPLOSION HAZARD

- Non combustible.
 - Not considered to be a significant fire risk.
 - Expansion or decomposition on heating may lead to violent rupture of containers.
 - Decomposes on heating and may produce toxic/ irritating fumes.
- Decomposition may produce toxic fumes of: hydrogen chloride.

HAZCHEM

2X

continued...

MICON MITEQ 303

Chemwatch Independent Material Safety Data Sheet
Issue Date: 14-Feb-2012
9317SP

CHEMWATCH 4655-39
Version No:5
CD 2011/4 Page 3 of 7

Section 6 - ACCIDENTAL RELEASE MEASURES

MINOR SPILLS

- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact by using protective equipment.
- Contain and absorb spill with sand, earth, inert material or vermiculite.

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.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

- DO NOT allow clothing wet with material to stay in contact with skin.
- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Avoid contact with incompatible materials.

SUITABLE CONTAINER

- Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

STORAGE INCOMPATIBILITY

- Contact with acids produces toxic fumes of chlorine.
- Avoid storage with combustible material.

STORAGE REQUIREMENTS

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

Source	Material	Peak ppm	Peak mg/m ³
Australia Exposure Standards	(Chlorine)	1	3
Australia Exposure Standards	(Sodium hydroxide)		2

The following materials had no OELs on our records

- water: CAS:7732- 18- 5

MATERIAL DATA

SODIUM HYPOCHLORITE:

- for chlorine:

Odour Threshold Value: 0.08 ppm (detection) - olfactory fatigue may develop

NOTE: Detector tubes for chlorine, measuring in excess of 0.2 ppm, are commercially available. Long-term measurements may be conducted to detect concentrations exceeding 0.13 ppm. <</>.

available chlorine, as chlorine

TLV TWA: 0.5 ppm, 1.5 mg/m³: STEL: 1 ppm, 2.9 mg/m³

ES Peak: 1 ppm, 3 mg/m³

continued...

MICON MITEQ 303

Chemwatch Independent Material Safety Data Sheet

Issue Date: 14-Feb-2012

9317SP

CHEMWATCH 4655-39

Version No:5

CD 2011/4 Page 4 of 7

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

CEL TWA: 2 mg/m³ (compare WEEL TWA)

The odour threshold is likely to be similar to that of chlorine, 0.3 ppm.

Acute, subchronic, and chronic toxicity studies have shown no significant treatment related effects. High concentrations may produce moderate to severe eye irritation, but not permanent injury. High doses also appear to be embryotoxic. Since nearly all sodium hypochlorite is handled as aqueous solution, airborne exposure is likely to be as an aerosol, or mist. Sodium hypochlorite dissociates in water to form free hypochlorous acid in equilibrium. The toxic effects are likely to be similar to those of chlorine or sodium hydroxide.

SODIUM HYDROXIDE:

■ for sodium hydroxide:

The TLV-C is recommended based on concentrations that produce noticeable but not excessive, ocular and upper respiratory tract irritation.

WATER:

■ No exposure limits set by NOHSC or ACGIH.

PERSONAL PROTECTION

RESPIRATOR

• Type B-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

EYE

- Chemical goggles.
- Full face shield may be required for supplementary but never for primary protection of eyes
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent].

HANDS/FEET

- Wear chemical protective gloves, eg. PVC.
- Wear safety footwear or safety gumboots, eg. Rubber.
- When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.

OTHER

- Overalls.
- PVC Apron.
- PVC protective suit may be required if exposure severe.
- Eyewash unit.

ENGINEERING CONTROLS

■ Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Clear yellow liquid with a strong chlorine odour; mixes with water.

Oxidising agent.

PHYSICAL PROPERTIES

Liquid.

Mixes with water.

Corrosive.

Contact with acids liberates toxic gas.

State	Liquid	Molecular Weight	Not Applicable
Melting Range (°C)	Not Available	Viscosity	Not Available
Boiling Range (°C)	100 approx.	Solubility in water (g/L)	Miscible

continued...

MICON MITEQ 303

Chemwatch Independent Material Safety Data Sheet

Issue Date: 14-Feb-2012

9317SP

CHEMWATCH 4655-39

Version No:5

CD 2011/4 Page 5 of 7

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Flash Point (°C)	Not Applicable	pH (1% solution)	Not Available
Decomposition Temp (°C)	Not Available	pH (as supplied)	12.5 approx.
Autoignition Temp (°C)	Not Available	Vapour Pressure (kPa)	Not Available
Upper Explosive Limit (%)	Not Applicable	Specific Gravity (water=1)	1.15 approx.
Lower Explosive Limit (%)	Not Applicable	Relative Vapour Density (air=1)	Not Available
Volatile Component (%vol)	Not Available	Evaporation Rate	Not Available

Section 10 - STABILITY AND REACTIVITY

CONDITIONS CONTRIBUTING TO INSTABILITY

- Presence of incompatible materials.
 - Product is considered stable.
 - Hazardous polymerisation will not occur.
- For incompatible materials - refer to Section 7 - Handling and Storage.*

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

SWALLOWED

- Accidental ingestion of the material may be damaging to the health of the individual.
- The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion.

EYE

- The material can produce chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating.
- The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

SKIN

- The material may produce chemical burns following direct contact with the skin.
- Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

INHALED

- The material may produce respiratory tract irritation, and result in damage to the lung including reduced lung function.

CHRONIC HEALTH EFFECTS

- Repeated or prolonged exposure to corrosives may result in the erosion of teeth, inflammatory and ulcerative changes in the mouth and necrosis (rarely) of the jaw. Bronchial irritation, with cough, and frequent attacks of bronchial pneumonia may ensue. Gastrointestinal disturbances may also occur. Chronic exposures may result in dermatitis and/or conjunctivitis. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
- There is limited evidence that, skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population.

TOXICITY AND IRRITATION

- Not available. Refer to individual constituents.

CARCINOGEN

Hypochlorite salts	International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs	Group	3
--------------------	---	-------	---

Section 12 - ECOLOGICAL INFORMATION

Very toxic to aquatic organisms.
This material and its container must be disposed of as hazardous waste.
Avoid release to the environment.

continued...

MICON MITEQ 303

Chemwatch Independent Material Safety Data Sheet
Issue Date: 14-Feb-2012
9317SP

CHEMWATCH 4655-39
Version No:5
CD 2011/4 Page 6 of 7
Section 12 - ECOLOGICAL INFORMATION

Refer to special instructions/ safety data sheets.

Ecotoxicity

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
sodium hypochlorite	No Data Available	No Data Available		
sodium hydroxide	LOW	No Data Available	LOW	HIGH

Section 13 - DISPOSAL CONSIDERATIONS

- Recycle wherever possible.
 - Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
 - Treat and neutralise at an approved treatment plant. Treatment should involve: Neutralisation followed by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material)
 - Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.
 - Containers may still present a chemical hazard/ danger when empty.
 - Return to supplier for reuse/ recycling if possible.
- Otherwise:
- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
 - Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

Section 14 - TRANSPORTATION INFORMATION



Labels Required: CORROSIVE

HAZCHEM:

2X (ADG7)

ADG7:

Class or Division:	8 8	Subsidiary Risk:	None
UN No.:	1791	Packing Group:	II, III
Special Provision:	223	Limited Quantity:	1L 5L
Portable Tanks & Bulk Containers - Instruction:	T7 T4	Portable Tanks & Bulk Containers - Special Provision:	None
Packagings & IBCs - Packing Instruction:	None	Packagings & IBCs - Special Packing Provision:	P001 IBC02 P001 IBC03 LP01

Name and Description: None

Air Transport IATA:

ICAO/IATA Class:	8	ICAO/IATA Subrisk:	None
UN/ID Number:	1791	Packing Group:	III
Special provisions:	A3		

Shipping name:HYPOCHLORITE SOLUTION

Maritime Transport IMDG:

IMDG Class:	8	IMDG Subrisk:	None
UN Number:	1791	Packing Group:	III
EMS Number:	F- A, S- B	Special provisions:	223
Limited Quantities:	5 L	Marine Pollutant:	Yes

Shipping name:HYPOCHLORITE SOLUTION

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: UN

continued...

MICON MITEQ 303

Chemwatch Independent Material Safety Data Sheet
Issue Date: 14-Feb-2012
9317SP

CHEMWATCH 4655-39
Version No:5
CD 2011/4 Page 7 of 7

Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE S5

REGULATIONS

Regulations for ingredients

sodium hypochlorite (CAS: 7681-52-9,10022-70-5) is found on the following regulatory lists;

"Australia - Australian Capital Territory - Environment Protection Regulation: Ambient environmental standards (AQUA/1 to 6 - inorganic chemicals)", "Australia - Australian Capital Territory - Environment Protection Regulation: Ambient environmental standards (Domestic water supply - disinfection by-products)", "Australia - Australian Capital Territory - Environment Protection Regulation: Pollutants entering waterways taken to cause environmental harm (Aquatic habitat)", "Australia - Australian Capital Territory - Environment Protection Regulation: Pollutants entering waterways taken to cause environmental harm (Domestic water supply quality)", "Australia - Queensland Hazardous Materials and Prescribed Quantities for Major Hazard Facilities", "Australia Council of Australian Governments (COAG) Chemicals of Security Concern", "Australia Exposure Standards", "Australia Hazardous Substances", "Australia High Volume Industrial Chemical List (HVICL)", "Australia National Pollutant Inventory", "Australia Quarantine and Inspection Service List of chemical compounds that are accepted solely for use at establishments registered to prepare meat and meat products for the purpose of the Export Control Act 1982", "Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix G", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "International Agency for Research on Cancer (IARC) - Agents Reviewed by the IARC Monographs", "International Council of Chemical Associations (ICCA) - High Production Volume List", "WHO Guidelines for Drinking-water Quality - Guideline values for chemicals that are of health significance in drinking-water"

sodium hydroxide (CAS: 1310-73-2,12200-64-5) is found on the following regulatory lists;

"Australia Exposure Standards", "Australia Hazardous Substances", "Australia High Volume Industrial Chemical List (HVICL)", "Australia Quarantine and Inspection Service List of chemical compounds that are accepted solely for use at establishments registered to prepare meat and meat products for the purpose of the Export Control Act 1982", "CODEX General Standard for Food Additives (GSFA) - Additives Permitted for Use in Food in General. Unless Otherwise Specified, in Accordance with GMP", "GESAMP/EHS Composite List - GESAMP Hazard Profiles", "IMO IBC Code Chapter 17: Summary of minimum requirements", "International Council of Chemical Associations (ICCA) - High Production Volume List"

water (CAS: 7732-18-5) is found on the following regulatory lists;

"IMO IBC Code Chapter 18: List of products to which the Code does not apply", "OSPAR National List of Candidates for Substitution - Norway"

No data for (CW: 4655-39)

Section 16 - OTHER INFORMATION

INGREDIENTS WITH MULTIPLE CAS NUMBERS

Ingredient Name	CAS
sodium hypochlorite	7681- 52- 9, 10022- 70- 5
sodium hydroxide	1310- 73- 2, 12200- 64- 5

■ Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:
www.chemwatch.net/references.

■ The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

This document is copyright. Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.

Issue Date: 14-Feb-2012

Print Date: 14-Feb-2012

This is the end of the MSDS.