

Milton® Anti-bacterial solution

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier

Product name: Milton® Anti-bacterial solution

1.2. Relevant identified uses of the substance or mixture and uses advised against

Disinfection of nursery accessories (feeding bottles, teats, ...) by immersion.

Disinfection of surfaces (floor, working surfaces, ...) in domestic and healthcare sectors by wet wiping. For professional and general public.

1.3. Details of the supplier of the safety data sheet

Registered company name: Milton Australia Pty Ltd Address: 1/575 Darling Street, Rozelle NSW 2039 Australia Phone: +61 3 8586 0500 Fax.: +61 3 8586 0505 E-mail: info@nicepack.com.au http://www.miltonbaby.com.au

1.4. Emergency telephone number

Country	Phone number	Website
Australia	1800 506 750	-
New Zealand	0800 555 895	-

SECTION 2 – HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Poisons Schedule	Not Applicable
Classification	Corrosive to Metals Category 1, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Hazardous to the Aquatic Environment Acute Hazard Category 3

Warning! Do not use together with other products. May release dangerous gases (chlorine).

2.2. Label elements

Hazard pictograms:



Signal word: WARNING

Hazard statements:

AUH031	Contact with acid liberates toxic gas.
H290	May be corrosive to metals.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H402	Harmful to aquatic life.

Precautionary statements - Prevention:

P234	Keep only in original container.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P264	Wash all exposed external body areas thoroughly after handling.

Precautionary statements - Response:

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
	rinsing.

P337+P313	If eye irritation persists: Get medical advice/attention.
P390	Absorb spillage to prevent material damage.
P302+P352	IF ON SKIN: Wash with plenty of water.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.

<u>Precautionary statements – Storage:</u> Not Applicable.

Precautionary statements - Disposal:

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

2.3. Other hazards

Warning! Do not use together with other products. May release dangerous gases (chlorine).

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable (mixture).

3.2. Mixtures

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(.om	position:

CAS No.	% [weigh]	Name
7681-52-9	2 %**	Sodium Hypochlorite

**Corresponds to 1.90% w/w active chlorine released from sodium hypochlorite

SECTION 4 – FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing if the victim is unconscious.

4.1. Description of first aid measures

Eye Contact	 <u>If this product comes in contact with the eyes</u>: 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. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	<u>If skin contact occurs</u> : - 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.
Inhalation	 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. Transport to hospital, or doctor, without delay.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

SECTION 5 – FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable methods of extinction	In the event of a fire, use: - foam. - dry chemical powder. - BCF (where regulations permit).
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- carbon dioxide (CO2). - Water spray or fog – Large fires only.
Water spray or log – Large mes only.

5.2. Special hazards arising from the substance or mixture

Fire Incompatibility	None known.
5.3. Advice for firefighters	
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 water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. 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.
Fire / Explosion Hazard	 Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit irritating/ toxic fumes. May emit acrid smoke. Mists containing combustible materials may be explosive. May emit poisonous fumes. May emit corrosive fumes.
HAZCHEM	2X

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

See section 8.

6.2. Environmental precautions

See section 12.

6.3. Methods and material for containment and cleaning up

Minor Spills	 Remove all ignition sources. 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	 Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite. Collect recoverable product into labelled containers for recycling. Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash area and prevent runoff into drains. If contamination of drains or waterways occurs, advise emergency services.

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

SECTION 7 – HANDLING AND STORAGE

7.1. Precautions for safe handling

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. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. Avoid physical damage to containers. Always wash hands with soap and water after handling.
	 Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately.
	 Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS.

	- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.
Other information	 Store in original containers. Keep containers securely sealed. No smoking, naked lights or ignition sources. 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 SDS.
7.2. Conditions for safe storage,	including any incompatibilities
Suitable container	 Metal can or drum. Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.

Suitable container	 Metal can or drum. Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks. 	
Storage incompatibility	- Contact with acids produces toxic fumes.	

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available.

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
Sodium Hypochlorite	13 mg/m3	140 mg/m3	290 mg/m3
Sodium Hypochlorite	2 mg/m3	290 mg/m3	1,800 mg/m3

Ingredient	Original IDLH	Revised IDLH
Sodium Hypochlorite	Not Available	Not Available

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
Sodium Hypochlorite	С	> 0.1 to \leq milligrams per cubic meter of air (mg/m ³)
Notes:	based on a chemical's potency and the adverse h	assigning chemicals into specific categories or bands ealth outcomes associated with exposure. The output of d (OEB), which corresponds to a range of exposure or health.

8.2. Exposure controls

Appropriate 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. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection. An approved self contained breathing apparatus (SCBA) may be required in some situations. Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.		
	Type of Contaminant:	Air Speed:	
	solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50-100 f/min.)	
	aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of f/m active generation)		
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts,	1-2.5 m/s (200-500	

	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion). 2.5-10 m/s (500-2000 f/min.)		
	Within each range the appropriate value depends on: Lower end of the range	Upper end of the range	
	1: Room air currents minimal or favourable to capture	1: Disturbing room air curren	ts
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxic	
			-
	3: Intermittent, low production.	3: High production, heavy us	
	4: Large hood or large air mass in motion	4: Small hood-local control o	nıy
	Simple theory shows that air velocity falls rapidly with extraction pipe. Velocity generally decreases with the s simple cases). Therefore the air speed at the extraction reference to distance from the contaminating source. Th should be a minimum of 1-2 m/s (200-400 f/min) for extra distant from the extraction point. Other mechanical c within the extraction apparatus, make it essential that th of 10 or more when extraction systems are installed or	square of distance from the on point should be adjusted a air velocity at the extracti- action of solvents generate onsiderations, producing p neoretical air velocities are n	extraction point (in d, accordingly, after on fan, for example, d in a tank 2 meters erformance deficits
Personal Protection			
Eye and face protection	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft conta A written policy document, describing the wearing of le for each workplace or task. This should include a review of chemicals in use and an account of injury experier trained in their removal and suitable equipment should exposure, begin eye irrigation immediately and remo should be removed at the first signs of eye redness of environment only after workers have washed hands Bulletin 59], [AS/NZS 1336 or national equivalent] 	enses or restrictions on use of lens absorption and ads ice. Medical and first-aid p I be readily available. In the ve contact lens as soon a irritation - lens should be	, should be created orption for the class ersonnel should be e event of chemical s practicable. Lens removed in a clean
Skin protection	See Hand protection below		
Hands / feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and duration of contact, chemical resistance of glove material, glove thickness and dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves should be		

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	 model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.
Body protection	See Other protection below.
Other protection	- Overalls. - P.V.C apron. - Barrier cream. - Skin cleansing cream. - Eye wash unit.

Recommended material(s) **Respiratory protection** Type B-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent) Selection of the Class and Type of respirator will depend upon the level of GLOVE SELECTION INDEX breathing zone contaminant and the chemical nature of the contaminant. Glove selection is based on a modified presentation of the: Protection Factors (defined as the ratio of contaminant outside and inside the "Forsberg Clothing Performance Index". mask) may also be important. The effect(s) of the following substance(s) are taken into account in the computer-generated selection: Required Maximum gas/vapour Milton Anti-bacterial solution Half-face Full-Face minimum CPI Material NATURAL RUBBER А NATURAL+NEOPRENE А NEOPRENE A NITRILE А NITRILE+PVC А PVC A *CPI – Clothing Performance Index A: Best Selection B: Satisfactory; may degrade after 4 hours continuous immersion C: Poor to

Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove,

a final selection must be based on detailed observation. -*Where the glove is to be used on a short term, casual or infrequent basis,

factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

protection factor	in air / p.p.m. (by volume)	Respirator	Respirator
up to 10	1000	B-AUS / Class1 P2	-
up to 50	1000	-	B-AUS / Class 1 P2
up to 50	5000	Airline *	-
up to 100	5000	-	B-2 P2
up to 100	10000	-	B-3 P2
100+			Airline**

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Slightly yellow liquid with chlorinated odour.

Physical state	Liquid	Relative density (Water = 1)	1.130 to 1.150
Odour	Chlorine odour	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	11.8 at 21°C	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	1.73 at 20°C 1.22 at 40°C
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	~ 110	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Available	Oxidising properties	Not Available

Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Not Available	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

SECTION 10 – STABILITY AND REACTIVITY

10.1. Reactivity See section 7.

10.2. Chemical stability

Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.

10.3. Possibility of hazardous reactions See section 7.

10.4. Conditions to avoid See section 7.

10.5. Incompatible materials See section 7.

10.6. Hazardous decomposition products See section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Inhaled There is some evidence to suggest that the material can cause respiratory irritation the body's response to such irritation can cause further lung damage. Chlorine vapour is extremely irritating to the airways and lungs, causing coughing difficulty, chest pain, headache, vomiting, fluid accumulation in the lungs, chest consciousness. Effects may be delayed. Long term exposure (at workplace) may the teeth, irritate the linings of the nose and may increase the likelihood of dev. Recent studies have not confirmed these findings. Very low concentrations may in and throat and cause the above reactions. Inhalation of vapours or aerosols (mists, fumes), generated by the material during handling, may produce toxic effects.			
Ingestion	The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.		
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition. Open cuts, abraded or irritated skin should not be exposed to this material. Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce system injury with harmful effects. Examine the skin prior to the use of the material and ensure that a external damage is suitably protected.		
Eye	If applied to the eyes, this material causes severe eye damage.		
Chronic	There has been some concern that this material can cause cancer or mutations but there is not enough data to make an assessment. 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. Reduced breathing capacity may result from chronic low level exposure to chlorine gas. Chronic poisoning may result in cough, severe chest pains, sore throat and blood in the phlegm. Moderate to severe exposures over 3 years produced decreased lung capacity in a number of workers. Delayed effects can include shortness of breath, violent headaches, lung swelling and pneumonia. Chloralkali workers exposed over many years showed fatigue, and a modest increase in anxiety and dizziness. There may be an increase in white blood cell and decrease in red blood cell count.		

Milton Anti-bacterial solution	TOXICITY Not Available	IRRITATION Not Available	
Sodium Hypochlorite	ΤΟΧΙΟΙΤΥ	IRRITATION	
	Dermal (rabbit) LD50: >10000 mg/kg ^[1]	Eye (rabbit): 10 mg – moderate	
	Inhalation (rat) LC50: >2.625 mg/l4h ^[1]	Eye (rabbit): 100 mg – moderate	
	Oral (mouse) LD50: 5800 mg/kg ^[2]	Skin (rabbit): 500 mg/24h - moderate	

Legend: [1] Value obtained from Europe ECHA Registered Substances – Acute toxicity. [2] Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS – Register of Toxic Effect of Chemical Substances.

SODIUM HYPOCHLORITE	As sodium hypochlorite pentahydrate asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production. Hypochlorite salts are classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing. The material may produce moderate eye irritation leading to inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. Hypochlorite salts are extremely corrosive and can cause severe damage to the eyes and skin. A number of skin cancers have been observed in mice, when applied to their skin.
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Acute Toxicity	×	Carcinogenicity	×
Skin Irritation / Corrosion	¥	Reproductivity	×
Serious Eye Damage / Irritation	*	STOT – Single Exposure	×
Respiratory or Skin sensitisation	×	STOT – Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend: X Data either not available or does not fill the criteria for classification. V Data available to make classification.

SECTION 12 – ECOLOGICAL INFORMATION

12.1. Toxicity

Milton Anti-bacterial solution	Endpoint		Test Duration (hr)		Species	Value	Sourc	Source	
	Not Avail	able	Not Availab	le	Not Available	Not Avai	lable Not A	vailable	
Sodium Hypochlorite	Endpoint	ndpoint Test Duration (hr) S		Speci	es	Valu	le	Source	
	NOEC(ECx)	72h		Algae or other aquatic plants		0.00	0.005mg/l		
	EC50	96h		Algae or other aquatic plants		~0.1	~0.1~0.4mg/l		
	EC50	72h		Algae or other aquatic plants		0.01	0.018mg/l		
	LC50	96h		Fish		>0.023<0.052mg/l		2	
	EC50	48h		Crustacea		0.01	mg/l	2	
	Legend: 1. Europ Ecotox database -			stances	s - Ecotoxicological Info	rmation – A	Aquatic Toxicit	y. 2. US E	

DO NOT discharge into sewer or waterways. Harmful to aquatic organisms.

12.2. Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
	No Data available for all ingredients	No Data available for all ingredients

12.3. Bioaccumulative potential

Ingredient	Bioaccumulation
	No Data available for all ingredients

12.4. Mobility in soil

Ingredient	

No Data available for all ingredients

Bioaccumulation

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product / Packaging disposal	 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 SDS and observe all notices pertaining to the product. DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Recycle wherever possible or consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill. Recycle containers if possible, or dispose of in an authorised landfill.
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SECTION 14 – TRANSPORT INFORMATION

14.1 Labels Required



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Marine Pollutant	NO
HAZCHEM	2X

14.2 Land transport (ADG)

UN number	1791		
UN proper shipping name	HYPOCHLORITE SOLUTION		
Transport hazard class(es)	ass: 8 ibrisk: Not Applicable		
Packing groupe	III		
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions: 223 Limited quantity: 5 L		

14.3 Air transport (ICAO-IATA / DGR)

UN number	1791
UN proper shipping name	Hypochlorite solution
Transport hazard class(es)	ICAO/IATA Class: 8 ICAO/IATA Subrisk: Not Applicable ERG Code: 8L
Packing group	III
Environmental hazard	Not Applicable
Special precautions for user	Special provisions: A3 A803 Cargo Only Packing Instructions: 856 Cargo Only Maximum Qty / Pack: 60 L Passenger and Cargo Packing Instructions: 852 Passenger and Cargo Maximum Qty / Pack: 5 L

Passenger and Cargo Limited Quantity Packing Instructions: Y841 Passenger and Cargo Limited Maximum Qty / Pack: 1 L

14.4 Sea transport (IMDG-Code / GGVSee)

UN number	1791
UN proper shipping name	HYPOCHLORITE SOLUTION
Transport hazard class(es)	IMDG Class: 8 IMDG Subrisk: Not Applicable
Packing group	111
Environmental hazard	Not Applicable
Special precautions for user	EMS Number: F-A, S-B Special provisions: 223 274 900 Limited Quantities: 5 L

14.5 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not Applicable.

14.6 Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
sodium hypochlorite	Not Available

14.7 Transport in bulk in accordance with the IGC Code

Product name	Ship Type
sodium hypochlorite	Not Available

SECTION 15 – REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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15.2. National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (sodium hypochlorite)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - FBEPH	Yes

Legend: Yes = All CAS declared ingredients are on the inventory. No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

SECTION 16 – OTHER INFORMATION

The 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. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA	Permissible Concentration-Time Weighted Average
PC-STEL	Permissible Concentration-Short Term Exposure Limit
ARC	International Agency for Research on Cancer
ACGIH	American Conference of Governmental Industrial Hygienists
STEL	Short Term Exposure Limit
TEEL	Temporary Emergency Exposure Limit
IDLH	Immediately Dangerous to Life or Health Concentrations
ES	Exposure Standard
OSF	Odour Safety Factor
NOAEL	No Observed Adverse Effect Level
LOAEL	Lowest Observed Adverse Effect Level
TLV	Threshold Limit Value
LOD	Limit of Detection
ΟΤV	Odour Threshold Value
BCF	BioConcentration Factors
BEI	Biological Exposure Index
AIIC	Australian Inventory of Industrial Chemicals
DSL	Domestic Substances List
NDSL	Non-Domestic Substances List
IECSC	Inventory of Existing Chemical Substance in China
EINECS	European INventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
NLP	No-Longer Polymers
ENCS	Existing and New Chemical Substances Inventory
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances
TSCA	Toxic Substances Control Act
TCSI	Taiwan Chemical Substance Inventory
INSQ	Inventario Nacional de Sustancias Químicas
NCI	National Chemical Inventory
FBEPH	Russian Register of Potentially Hazardous Chemical and Biological Substances