

# **Sodium Hypochlorite**

Chemwatch Hazard Alert Code: 3

Issue Date: 03/09/2020 Print Date: 06/06/2022 S.GHS.AUS.EN

Chemwatch: 4847-14 Version No. 4.1

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

#### **Product Identifier**

Product name	Sodium Hypochlorite	
Chemical Name	Not Applicable	
Synonyms	Not Available	
Proper shipping name	HYPOCHLORITE SOLUTION	
Chemical formula	Not Applicable	
Other means of identification	Not Available	

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses General purpose bleach and disinfectant.

#### Details of the supplier of the safety data sheet

Registered company name	Manningham Corporation			
Address	0 Ryeland Ct, North Geelong VIC 3215			
Telephone	00 634 600			
Fax	-			
Website	http://www.provada.com.au/			
Email	info@manham.com.au			

### **Emergency telephone number**

Association / Organisation	Manningham Corporation	
Emergency telephone numbers	1300 634 600	
Other emergency telephone numbers	Not Available	

Once connected and if the message is not in your prefered language then please dial 01

#### **SECTION 2 Hazards identification**

### Classification of the substance or mixture

Poisons Schedule	S5		
Classification [1]	Corrosive to Metals Category 1, Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the Aquati Environment Acute Hazard Category 1, Oxidizing Liquids Category 3		
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI		

### Label elements

Hazard pictogram(s)







Signal word Danger

Chemwatch: **4847-14**Version No: **4.1** 

Page 2 of 10

Sodium Hypochlorite

Issue Date: **03/09/2020**Print Date: **06/06/2022** 

#### Hazard statement(s)

H290	May be corrosive to metals.		
H314	auses severe skin burns and eye damage.		
H400	/ery toxic to aquatic life.		
AUH031	Contact with acid liberates toxic gas.		
H272	May intensify fire; oxidiser.		

#### Precautionary statement(s) Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
P260	o not breathe mist/vapours/spray.	
P264	P264 Wash all exposed external body areas thoroughly after handling.	
P280 Wear protective gloves, protective clothing, eye protection and face protection.		

#### Precautionary statement(s) Response

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.		
P303+P361+P353	ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].		
P305+P351+P338	305+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/doctor/physician/first aider.		

### Precautionary statement(s) Storage

P405 Store locked up.

### Precautionary statement(s) Disposal

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

Not Applicable

# **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

#### Mixtures

CAS No	%[weight]	Name	
7681-52-9	10-15	sodium hypochlorite	
1310-73-2	<5	sodium hydroxide	
7732-18-5	>60	water	
Not Available	available chlorine 12.5%		
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available		

#### **SECTION 4 First aid measures**

### Description of first aid measures

If this product comes in contact with the eyes:

# Eye Contact

- 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.

#### IT SK

#### Skin Contact

Inhalation

- ▶ 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.
- 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.
  - Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema.
    - Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs).
    - As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested.
  - Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered.

This must definitely be left to a doctor or person authorised by him/her.

(ICSC13719)

Chemwatch: 4847-14 Page 3 of 10 Issue Date: 03/09/2020 Version No: 4.1 Print Date: 06/06/2022

# **Sodium Hypochlorite**

For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed.

► If swallowed do **NOT** induce vomiting. 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.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Transport to hospital or doctor without delay.

#### Indication of any immediate medical attention and special treatment needed

For acute or repeated exposures to hypochlorite solutions:

Ingestion

- 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.
- Chlorine exposures require evaluation of acid/base and respiratory status.
- Inhalation of vapours or mists may result in pulmonary oedema.

ELLENHORN and BARCELOUX: Medical Toxicology.

#### **SECTION 5 Firefighting measures**

#### Extinguishing media

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

#### Special hazards arising from the substrate or mixture

Fire Incompatibility	None known.				
Advice for firefighters	Advice for firefighters				
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> </ul>				
Fire/Explosion Hazard	<ul> <li>Non combustible.</li> <li>Not considered to be a significant fire risk.</li> <li>Expansion or decomposition on heating may lead to violent rupture of containers.</li> <li>Decomposes on heating and may produce toxic/ irritating fumes.</li> </ul> Decomposes on heating and produces toxic fumes of: hydrogen chloride May emit corrosive fumes.				
HAZCHEM	2X				

#### SECTION 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

See section 8

#### **Environmental precautions**

See section 12

### Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> </ul>	
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> </ul>	

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

#### **SECTION 7 Handling and storage**

### Precautions for safe handling

▶ DO NOT allow clothing wet with material to stay in contact with skin Limit all unnecessary personal contact.

Safe handling

Wear protective clothing when risk of exposure occurs

- Use in a well-ventilated area.
- Avoid contact with incompatible materials

# Page 4 of 10

### **Sodium Hypochlorite**

Issue Date: **03/09/2020**Print Date: **06/06/2022** 

#### 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 from light.

#### Conditions for safe storage, including any incompatibilities

#### 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 strong acids, acid chlorides, acid anhydrides and chloroformates.
- Avoid any contamination of this material as it is very reactive and any contamination is potentially hazardous

### SECTION 8 Exposure controls / personal protection

#### Control parameters

#### Occupational Exposure Limits (OEL)

#### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	sodium hydroxide	Sodium hydroxide	Not Available	Not Available	2 mg/m3	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
sodium hydroxide	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
sodium hypochlorite	Not Available	Not Available
sodium hydroxide	10 mg/m3	Not Available
water	Not Available	Not Available

#### **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.

#### Personal protection













# Eye and face protection

- ► 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 lenses or restrictions on use, should be created for each workplace or task.

#### Skin protection

#### See Hand protection below

- See Hand protection below
- Wear chemical protective gloves, e.g. PVC.Wear safety footwear or safety gumboots, e.g. Rubber
- ▶ When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.

# Hands/feet protection

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.

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.

#### Body protection

See Other protection below

# Other protection

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

#### Recommended material(s)

# GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Sodium Hypochlorite

### 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 breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required Maximum gas/vapour Half-face Full-Face	
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# Issue Date: 03/09/2020 Print Date: 06/06/2022

### **Sodium Hypochlorite**

Material	СРІ
NEOPRENE	A
BUTYL	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE	С
PE/EVAL/PE	С
PVA	С
PVC	С
SARANEX-23	С
SARANEX-23 2-PLY	С
TEFLON	С
VITON	С
VITON/CHLOROBUTYL	С

minimum protection factor	concentration present in air p.p.m. (by volume)	Respirator	Respirator
up to 10	1000	B-AUS / Class1 P3	-
up to 50	1000	-	B-AUS / Class 1 P3
up to 50	5000	Airline *	-
up to 100	5000	-	B-2 P3
up to 100	10000	-	B-3 P3
100+			Airline**

<sup>\* -</sup> Continuous Flow \*\* - Continuous-flow or positive pressure demand 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)

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.

# **SECTION 9 Physical and chemical properties**

# Information on basic physical and chemical properties

Appearance	Pale yellow-green liquid with chlorine odour; mixes with water. Oxidiser.		
Physical state	Liquid	Relative density (Water = 1)	1.18-1.20
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	>11.5	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	Not Applicable	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (Not Available%)	Not Available
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

<sup>\*</sup> CPI - Chemwatch 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

Version No: 4.1

# **Sodium Hypochlorite**

Issue Date: **03/09/2020**Print Date: **06/06/2022** 

# SECTION 11 Toxicological information

Skin Irritation/Corrosion

SECTION 11 Toxicological in	nformation			
Information on toxicological ef	fects			
Inhaled	There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.  Chlorine vapour is extremely irritating to the airways and lungs, causing coughing, choking, breathing difficulty, chest pain, headache, vomiting, fluid accumulation in the lungs, chest infection and loss of consciousness. Effects may be delayed. Long term exposure (at workplace) may lead to corrosion of the teeth, irritate the linings of the nose and may increase the likelihood of developing tuberculosis. Recent studies have not confirmed these findings.			
Ingestion	The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion.  Swallowing hypochlorites may cause burning in the mouth and throat, abdominal cramps, nausea, vomiting, diarrhea, pain, inflammation f the mouth and stomach, low blood pressure, shock, confusion and delirium. Severe poisonings may lead to convulsion, coma and death.  Hypochlorites irritate the mouth, throat and stomach; the hypochlorous acid liberated in the stomach can cause tearing of the stomach wall, with bleeding, and can be fatal.			
Skin Contact	Skin contact will result in rapid drying, bleaching, leading Open cuts, abraded or irritated skin should not be expos Entry into the blood-stream, through, for example, cuts,	The material can produce chemical burns following direct contact with the skin.  Skin contact will result in rapid drying, bleaching, leading to chemical burns on prolonged contact  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 systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.		
Eye	The material can produce chemical burns to the eye follo	owing direct contact. Vapours or mist	s may be extremely irritating.	
Chronic	(rarely) of the jaw. Bronchial irritation, with cough, and fr There is limited evidence that, skin contact with this progeneral population. Reduced breathing capacity may result from chronic low pains, sore throat and blood in the phlegm. Moderate to workers.	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.  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		
	TOMOTY	IDDITATION		
Sodium Hypochlorite	TOXICITY  Not Available	IRRITATION  Not Available		
	Not / Wallable	Trocytraliable		
	TOXICITY	IRRITATION		
codium hypochlorita	Dermal (rabbit) LD50: >10000 mg/kg <sup>[1]</sup>	Eye (rabbit): 10 m	g - moderate	
sodium hypochlorite	Inhalation(Rat) LC50; >2.625 mg/l4h <sup>[1]</sup>	Eye (rabbit): 100 r	ng - moderate	
	Oral (Mouse) LD50; 5800 mg/kg <sup>[2]</sup>	Skin (rabbit): 500	mg/24h-moderate	
	TOXICITY	IRRITATION		
	Dermal (rabbit) LD50: 1350 mg/kg <sup>[2]</sup>	Eye (rabbit): 0.05	mg/24h SEVERE	
	Oral (Rabbit) LD50; 325 mg/kg <sup>[1]</sup>			
sodium hydroxide	Oral (Rabbit) LD50; 325 mg/kgl <sup>1</sup> ] Eye (rabbit):1 mg/24h SEVERE  Eye (rabbit):1 mg/30s rinsed-SEVERE			
Soulum nyuroxide	Eye: adverse effect observed (irritating) <sup>[1]</sup>			
		Skin (rabbit): 500		
		, ,	ct observed (corrosive) <sup>[1]</sup>	
		Chin. davoroc chic	0.0000100 (001100100)	
water	TOXICITY	IRRITATION		
water	Oral (Rat) LD50; >90000 mg/kg <sup>[2]</sup>	Not Available		
Legend:	Value obtained from Europe ECHA Registered Substa specified data extracted from RTECS - Register of Toxic	-	ned from manufacturer's SDS. Unless otherwise	
SODIUM HYPOCHLORITE	as sodium hypochlorite pentahydrate Hypochlorite salts are classified by IARC as Group 3: <b>NOT</b> 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.			
SODIUM HYDROXIDE	The material may produce severe irritation to the eye ca produce conjunctivitis.  The material may cause severe skin irritation after proloi production of vesicles, scaling and thickening of the skin	nged or repeated exposure and may	produce on contact skin redness, swelling, the	
WATER	No significant acute toxicological data identified in literat	ure search.		
SODIUM HYPOCHLORITE & SODIUM HYDROXIDE	Asthma-like symptoms may continue for months or even known as reactive airways dysfunction syndrome (RADS criteria for diagnosing RADS include the absence of presasthma-like symptoms within minutes to hours of a docu airflow pattern on lung function tests, moderate to severe lymphocytic inflammation, without eosinophilia.	s) which can occur after exposure to vious airways disease in a non-atopic mented exposure to the irritant. Other	high levels of highly irritating compound. Main cindividual, with sudden onset of persistent or criteria for diagnosis of RADS include a reversible	
Acute Toxicity	×	Carcinogenicity	×	
			1	

Reproductivity

Chemwatch: 4847-14 Page **7** of **10** Version No: 4.1

# **Sodium Hypochlorite**

Issue Date: 03/09/2020 Print Date: 06/06/2022

Serious Eye Damage/Irritation	✓	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend:

★ - Data either not available or does not fill the criteria for classification 🥓 – Data available to make classification

# **SECTION 12 Ecological information**

#### Toxicity

Sodium Hypochlorite	Endpoint	Test Duration (hr)	Species		Value	Source
Souldin Hypochionie	Not Available	Not Available	Not Available		Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species		Value	Sourc
	NOEC(ECx)	72h	Algae or other aquatic plants		0.005mg/l	2
	EC50	72h	Algae or other aquatic plants		0.018mg/l	2
sodium hypochlorite	EC50	48h	Crustacea		0.01mg/l	4
	EC50	96h	Algae or other aquatic plants		~0.1~0.4mg/l	2
LC5	LC50	96h	Fish		0.037mg/l	2
	Endpoint	Test Duration (hr)	Species	Va	lue	Sourc
	EC50(ECx)	48h	Crustacea	34	.59-47.13mg/l	4
sodium hydroxide	EC50	48h	Crustacea	34	.59-47.13mg/l	4
	LC50	96h	Fish	14	4-267mg/l	4
	Endpoint	Test Duration (hr)	Species		Value	Source
water	Not Available	Not Available	Not Available		Not Available	Not Availabl
Legend:	Ecotox databas	,	CHA Registered Substances - Ecotoxicological In. C Aquatic Hazard Assessment Data 6. NITE (Japa	,	,	

## DO NOT discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium hydroxide	LOW	LOW
water	LOW	LOW

# Bioaccumulative potential

Ingredient	Bioaccumulation
sodium hydroxide	LOW (LogKOW = -3.8796)

# Mobility in soil

Ingredient	Mobility
sodium hydroxide	LOW (KOC = 14.3)

# **SECTION 13 Disposal considerations**

# Waste treatment methods

Product / Packaging disposal

- ▶ 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.

# **SECTION 14 Transport information**

## **Labels Required**



Version No: 4.1

**Sodium Hypochlorite** 

Issue Date: **03/09/2020**Print Date: **06/06/2022** 





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EM 2X

# Land transport (ADG)

zana nanopoli (180)		
UN number	1791	
UN proper shipping name	HYPOCHLORITE SOLUTION	
Transport hazard class(es)	Class 8 Subrisk Not Applicable	
Packing group		
Environmental hazard	Environmentally hazardous	
Special precautions for user	Special provisions 223 Limited quantity 5 L	

# Air transport (ICAO-IATA / DGR)

UN number	1791		
UN proper shipping name	Hypochlorite solution		
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	8 Not Applicable 8L	
Packing group	III		
Environmental hazard	Environmentally hazardo	ous	
Special precautions for user		Qty / Pack Packing Instructions	A3 A803 856 60 L 852 5 L Y841

# Sea transport (IMDG-Code / GGVSee)

dea transport (timbo dode / do roco)			
UN number	1791		
UN proper shipping name	HYPOCHLORITE SOLUTION		
Transport hazard class(es)	IMDG Class 8 IMDG Subrisk No	ot Applicable	
Packing group			
Environmental hazard	Marine Pollutant		
Special precautions for user	EMS Number Special provisions Limited Quantities	F-A, S-B 223 274 900 5 L	

# Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

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

Product name	Group
sodium hypochlorite	Not Available
sodium hydroxide	Not Available
water	Not Available

# Transport in bulk in accordance with the ICG Code

Transport in bulk in accordance with the 100 code		
Product name	Ship Type	
sodium hypochlorite	Not Available	
sodium hydroxide	Not Available	
water	Not Available	

Sodium Hypochlorite

Issue Date: 03/09/2020 Print Date: 06/06/2022

#### **SECTION 15 Regulatory information**

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

#### sodium hypochlorite is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

#### sodium hydroxide is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Australian Inventory of Industrial Chemicals (AIIC)

#### water is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

#### **National Inventory Status**

National Inventory	Status	
Australia - AIIC / Australia Non-Industrial Use	Yes	
Canada - DSL	Yes	
Canada - NDSL	No (sodium hypochlorite; sodium hydroxide; water)	
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**

Revision Date	03/09/2020
Initial Date	13/07/2012

### **SDS Version Summary**

Version	Date of Update	Sections Updated
3.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification
4.1	03/09/2020	Classification change due to full database hazard calculation/update.

#### Other information

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.

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

IARC: 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

OTV: Odour Threshold Value

BCF: BioConcentration Factors BEI: Biological Exposure Index

Continued...

Chemwatch: 4847-14 Page 10 of 10 Issue Date: 03/09/2020 Version No: 4.1 Print Date: 06/06/2022

### **Sodium Hypochlorite**

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

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