

Printing date 25.08.2014

SAFETY DATA SHEET

According to Safe Work Australia

Revision: 25.08.2014

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1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

Product Name: SODIUM HYPOCHLORITE

Other Name: Sodium hypochlorite with 12.5 % available chlorine

Recommended Use of the Chemical and Restriction on Use: Sanitiser and bleaching agent

Details of Manufacturer or Importer: DASCO Pty Ltd 24 - 26 Helen Street Heidelberg Heights VIC 3081

Phone Number: (03) 9459 7004

Emergency telephone number: 13 11 26 (Poisons Information Centre)

2. HAZARDS IDENTIFICATION

Hazardous Nature:

skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.



environment

Aquatic Acute 1 H400 Very toxic to aquatic life.



H335 May cause respiratory irritation.

Label Elements

Signal Word Danger

Hazard Statements

H331 Toxic if inhaled. H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation. H400 Very toxic to aquatic life.

Precautionary Statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wear protective gloves/protective clothing/eye protection/face protection. P280
- P273 Avoid release to the environment.
- P264 Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area. P271
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if	
	present and easy to do. Continue rinsing.	
P321	Specific treatment (see on this label).	
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for	
	breathing.	
P363	Wash contaminated clothing before reuse.	
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.	
P391	Collect spillage.	
P310	Immediately call a POISON CENTER/doctor.	
P311	Call a POISON CENTER/doctor.	
P312	Call a POISON CENTER/doctor if you feel unwell.	
P405	Store locked up.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P501	Dispose of contents/container in accordance with local/regional/national regulations.	
Additional Information AUH031 Contact with acids liberates toxic das		

dditional Information AUH031 Contact with acids liberates toxic gas.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

7681-52-9	Hypochlorous acid, sodium salt	10-30%
	🚸 Skin Corr. 1B, H314; 🚸 Aquatic Acute 1, H400	
7782-50-5		up to 12.5%
	Acute Tox. 3, H331; Aquatic Acute 1, H400; Skin Irrit. 2, H315; Eye Irrit. A, H319; STOT SE 3, H335	
	Sodium hydroxide (Na(OH))	<5%
	🔶 Skin Corr. 1A, H314	

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eve Contact:

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.

Indestion:

If swallowed, do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

Information for Doctor

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation, coughing, burning sensation and difficulty breathing, swelling and obstruction of the airways, and pulmonary oedema (fluid build-up in lung tissues).

Skin contact: May cause redness, pain, blisters and serious burns.

Eye contact: May cause redness, pain and severe deep burns.

Ingestion: May cause corrosion of the mucous membranes in the mouth, throat and gastrointestinal tract, pain, abdominal cramps and pain, nausea, vomiting, weakness, oesophageal or gastric perforation, laryngeal oedema (swelling of the larynx), somnolence (general depressed activity), lowering of blood pressure,



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delirium, loss of consciousness and coma.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog or fine water spray.

Specific Hazards Arising from the Chemical:

Will react vigorously or violently with acids, generating chlorine, a toxic gas. May evolve oxygen on prolonged storage, building up pressure inside sealed containers. Attacks many metals. May form explosive compounds with amines, ammonium compounds, methanol, aziridine. Explosive reactions with formic acid, phenylacetonitrile. May react with combustible materials, metal salts, peroxides. Hazardous combustion products include chlorine and hydrogen chloride.

Special Protective Equipment and Precautions for Fire Fighters:

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear Safe Work Australia approved respiratory protection and full protective clothing. Evacuate all nonessential personnel from affected area. Do not breathe vapours. Increase ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in original container in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from physical damage and direct sunlight. Keep away from acids, oxidising agents, metals, combustible materials and other chlorinating compounds. Do not use metal containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:

7782-50-5	Chlorine
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NES TWA: 3 mg/m³, 1 ppm Peak limitation: 3 mg/m³, 1 ppm

1310-73-2 Sodium hydroxide (Na(OH))

NES TWA: 2 mg/m³

Peak limitation: 2 mg/m³

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Engineering Controls:

Ensure adequate ventilation of the workplace. If handling industrial quantities, or if vapour/aerosol risk exists, provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour as low as possible, at least below the occupational exposure limits.

Personal Protective Equipment (PPE):

Respiratory Protection:

Use a Safe Work Australia approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Rubber or plastic gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Impervious overalls, plastic apron, sleeves and boots should be worn when handling industrial quantities. See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:		
Form:	Liquid	
Colour:	Clear or slightly yellowish-green liquid	
Odour:	Characteristic "hypochlorite" odour	
Odour Threshold:	0.3 ppm (chlorine)	
pH-Value:	13 (Alkaline)	
Melting point/Melting range:	-16 °C	
Initial Boiling Point/Boiling Range:	From 100 °C	
Flash Point:	Not applicable	
Flammability:	Contact with combustible material may cause fire.	
Auto-ignition Temperature:	No information available	
Decomposition Temperature:	No information available	
Explosion Limits:		
Lower:	Not applicable	
Upper:	Not applicable	
Vapour Pressure at 20 °C:	17.5 mmHg	
Density:	Not determined.	
Relative Density at 20 °C:	1.21-1.25 g/mL	
Vapour Density:	Heavier than air	
Evaporation Rate:	No information available	
Solubility in Water:	Miscible in all proportions	
Partition Coefficient (n-octanol/water): No information available		
Solvent content:		
% Volatiles by Volume:	77 % (water)	
-	12.5 % (available chlorine)	
VOC:	Nil	

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10. STABILITY AND REACTIVITY

Possibility of Hazardous Reactions:

Highly alkaline, chlorinating liquid. Will react vigorously or violently with acids, generating chlorine, a toxic gas. May react violently with other types of chlorinating compounds. Attacks many metals. May form explosive compounds with amines, ammonium compounds, methanol, aziridine. Explosive reactions with formic acid, phenylacetonitrile. May react with combustible materials, metal salts, peroxides. May be decomposed by contamination or exposure to sunlight. May evolve oxygen on prolonged storage, building up pressure inside sealed containers.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Direct sunlight.

Incompatible Materials:

Acids, peroxides, oxidising agents, combustible materials, metals, metal salts, amines, ammonium compounds, methanol, aziridine, formic acid, phenylacetonitrile, other chlorinating compounds.

Hazardous Decomposition Products: Chlorine, sodium chlorate and hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

Toxicity:

LD₅₀/LC₅₀ Values Relevant for Classification:

7681-52-9 Hypochlorous acid, sodium salt

Oral LD₅₀ 5800 mg/kg (mouse)

TDLo 1000 mg/kg (human) (woman)

Acute Health Effects

Inhalation:

Toxic if inhaled. May cause respiratory irritation, coughing, burning sensation and difficulty breathing, swelling and obstruction of the airways, and pulmonary oedema (fluid build-up in lung tissues). Onset of symptoms may be delayed by a few hours. Pulmonary complications (often from aspiration into the lungs) may contribute to the death of a casualty.

Skin: May cause redness, pain, blisters and serious burns.

Eve:

May cause redness, pain and severe deep burns. Prolonged contact with eyes may lead to permanent injury. Ingestion:

May cause corrosion of the mucous membranes in the mouth, throat and gastrointestinal tract, pain, abdominal cramps and pain, nausea, vomiting, weakness, oesophageal or gastric perforation, laryngeal oedema (swelling of the larynx), somnolence (general depressed activity), lowering of blood pressure, delirium, loss of consciousness and coma.

Skin Corrosion / Irritation: Causes severe skin burns.

Serious Eye Damage / Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitisation: No sensitising effects known.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity:

Hypochlorite salts are classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Single Exposure:

May cause respiratory irritation.

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Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects:

Prolonged skin contact may lead to irritation and dermatitic effects. In rare cases, chronic exposure has lead to skin sensitisation, although sodium hypochlorite is not a known sensitiser.

Chronic exposure to sodium hypochlorite may lead to methaemoglobinaemia, characterised by chocolatebrown coloured blood, headache, dizziness, weakness, shortness of breath, cyanosis, rapid heart rate, unconsciousness and possible death.

Repeated, low-level exposure to chlorine gas may lead to chloracne and erosion of the teeth.

Existing Conditions Aggravated by Exposure: Respiratory diseases.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity: Harmful to aquatic organisms.

Persistence and Degradability:

Decomposes slowly on exposure to sunlight, and most forms of contamination, generating chlorine.

Bioaccumulative Potential: Not expected to bioaccumulate.

Mobility in Soil: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14. TRANSPORT INFORMATION

UN Number	1791	
Proper Shipping Name	HYPOCHLORITE SOLUTION	
Dangerous Goods Class ADG Class:	8 Corrosive substances.	
Packing Group: ADG	ш	
Marine pollutant:	Symbol (fish and tree)	
EMS Number:	FA-SB	
Hazchem Code:	2X	
Special Provisions:	223	
Limited Quantities:	5L	
Packagings & IBCs - Packing Instruction:	P001, IBC03, LP01	
Packagings & IBCs - Special Packing Provisions: Not applicable		

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TP2, TP24

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Portable Tanks & Bulk Containers - Instructions: T4

Portable Tanks & Bulk Containers - Special

Provisions:

15. REGULATORY INFORMATION

Australian Inventory of Chemical Substances:

7681-52-9 Hypochlorous acid, sodium salt

7782-50-5 Chlorine

1310-73-2 Sodium hydroxide (Na(OH))

7732-18-5 Water

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule: Poisons Schedule: 6

16.OTHER INFORMATION

Creation Date: 25.08.2014

Last Revision of MSDS: 01.09.2009

Prepared by: MSDS.COM.AU Pty Ltd

www.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds

LC50: Lethal concentration, 50 percent

LD₅₀: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Disclaimer

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

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