

MATERIAL SAFETY DATA SHEET

Section 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

COMPANY	Delshine Chemicals
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BRAND NAME Liquid Bleach 4 %
TRADE NAME Liquid Bleach 4 %
SHIPPING NAME (section 14) Sodium Hypochlorite Solution
USE General purpose cleaning and sanitising
RESTRICTIONS No special requirements

Section 2 HAZARDS CLASSIFICATION / IDENTIFICATION

CLASSIFIED AS NON HAZARDOUS – According to the criteria of NOHSC and not classified as a dangerous good **according to the ADG code.**

Emergency Overview – Warning – Ensure adequate ventilation when using. Vapour may be harmful. May give off dangerous gas if mixed with other products. May cause methemoglobinemia. Causes eye and skin burns. Causes digestive and respiratory tract burns.

Routs of Exposure – Product can effect the body if it is inhaled or it comes in contact with the eyes or skin. It can also effect the body if it is swallowed.

Summary of Acute Health Hazards

Swallowed – Ingestion is highly irritating to the mouth , throat and gastric tract causing a painful burning sensation.

Eye – Irritating to the eye/ Prolonged contact may cause damage due to chemical conjunctivitis.

Skin – Moderately irritating. Product causes a mild burning sensation on the skin and irritates due to the defatting effect caused by the product alkalinity.

Inhaled – Inhalation of vapours is mildly irritating to the upper respiratory tract and causes headache and nausea if inhaled at elevated levels or for prolonged periods.

Chronic – Repeated skin exposure can lead to dermatitis.

Summary of Chronic Health Hazards- The chronic local effect may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis. Similary inhalation of spray or mist may result in varying degrees of irritation or damage to the respiratory tract tissue and an increase susceptibility to respiratory illness.

Continue Section 2

HAZARDS CLASSIFICATION / IDENTIFICATION

Sodium hypochlorite may cause methemoglobinemia , which is characterized by chocolate brown coloured blood, headache , weakness, dizziness, breath shortness, cyanosis , rapid heart rate , unconsciousness and possible death.

Signs and Symptoms of Exposure – A physician should be contacted if anyone develops any signs or symptoms and suspects that they are caused by exposure.

Medical Conditions Generally Aggravated By Exposure – Product is a respiratory irritant. Persons with impaired pulmonary function may be at increased risk from exposure.

Risk Phrases – R31 Contact with acids liberates toxic gas – R36/38 Irritating to eyes and skin.

Safety Phrases – S1/2 Keep locked up and out of reach of children – S26 In case of contact with eyes rinse immediately with plenty of water – S37/39 Wear suitable gloves and eye/face protection S45 – In case of accident or If you feel unwell seek medical advice immediately (show label whenever possible)

Section 3

COMPOSITION / INFORMATION OF INGREDIENTS

Chemical Entity	Cas Number	Proportion (% Mass)
Sodium Hypochloride	7681-52-9	4

Section 4

FIRST AID MEASURES

Ingestion – If the person is conscious give them large amounts of water immediately to dilute the bleach. Do not attempt to make the exposed person vomit. Get medical attention immediately.

Inhalation – Move the exposed person to fresh air at once. If breathing has stopped perform artificial respiration. If breathing is difficult give oxygen. Keep the affected person warm and at rest. Get medical attention immediately.

Skin – Immediately flush contaminated skin with water. If large areas of the body are contaminated or if clothing is penetrated immediately use safety shower, removing clothing while under the shower. Flush exposed areas with large amount of water. Wash clothing before reuse.

Eyes – Immediately flush eyes with a directed stream of water for at least 15 minutes. Forcibly hold eyelids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Get medical attention immediately.

Notes to physician – For methemoglobinemia administer oxygen alone or with Methylene blue depending on the methemoglobinemia concentration in the blood.

Section 5

FIRE FIGHTING MEASURES

Flash Point – not combustible

Autoignition Temperature – not combustible

Lower exposure limits – Not available

Upper exposure limits – not available

Unusual Fire and Explosion Hazards – Not combustible. Oxidizer. Greatly increases the burning rate of combustible materials. Contact with some metals can generate hydrogen gas.

Extinguishing Media – This product is not combustible. Water spray foam carbon dioxide or dry chemical may be used where this product is stored.

Special Fire fighting Procedures – Full protective clothing and self contained breathing apparatus should be worn in areas where product is stored.

Section 6

ACCIDENTAL RELEASE MEASURES

Leaks should be stopped. Large spills should be contained and cleaned up immediately. Spills should be removed by using a vacuum truck. Neutralize remaining traces of material with sodium metabisulfite. The spill area should then be flushed with water. All clean up material should be removed and placed in approved containers, labeled and stored in a safe place to await proper treatment or disposal. Residues and small spills may be flushed to the drain with excess water.

Section 7

HANDLING AND STORAGE

Prevent possible eye and skin contact by wearing protective clothing and equipment. Storage tanks must be vented and diked. Store drums separate from acids, metals and explosives. Provide adequate drainage.

Special Mixing and Handling Instructions – Do not mix with hot water – chlorine be released.

Section 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

NOHSC exposure standards for atmospheric contaminants : Chlorine TWA 1.0ppm (3mg/m³) STEL peak limitation : Sodium Hydroxide TWA 2mg/m³ STEL Peak limitation.

Personal Protective Equipment –

Eyes – Wear appropriate protective eyeglasses or chemical safety goggles.

Skin – Wear appropriate protective gloves to prevent skin exposure.

Clothing – Wear appropriate protective clothing to minimize contact with skin.

Respirators – Use AS 1715 / 1716 approved respirators if exposure limits are likely to be exceeded.

Work Hygiene Practices – Avoid contact with skin and avoid breathing mist. Do not drink or smoke in work areas. Wash hands before eating, drinking or using toilet facilities.

Section 9

PHYSICAL & CHEMICAL PROPERTIES

Physical State – Liquid

Melting Point / Range – no data

Appearance – yellow liquid

Solubility in water – 100%

Specific Gravity (Water=1) 1.05 @20°C

Molecular Weight – Not available

pH (neat) 12.5 + 0.5 (pH rises as chlorine is lost)

Boiling Point / Range – not available

Odour chlorine

Vapour Pressure (mmHg) – No data

Freezing Point – No data

Vapour Density – (Air=1) not available

Section 10 STABILITY & REACTIVITY

Stability – stable under normal temperatures and pressures. Chlorine concentration will decrease with time.

Hazardous Polymerization – Will not occur

Conditions to Avoid – Contact with strong acids, amines, ammonia salts, reducing agents, metals, formic acids, methanol and phenylacetone nitrile. Contact with metals such as aluminium, tin, zinc and alloys containing these metals cause formation of flammable hydrogen gas.

Section 11 TOXICOLOGICAL INFORMATION

No data for the product. Information on the ingredients is noted below.

Sodium Hypochlorite : LD50/LC50: CAS#7681-52-9: Oral, mouse: LD50=5800mg/kg. CAS#7782-50-5:

Inhalation, mouse: LC50=137ppm/1H: Inhalation, rat, LC50=293ppm/1H.

Carcinogenicity: Sodium Hypochlorite- Not listed by ACGIH, IARC, NIOSH, NTP or OSHA. Chlorine – ACGIH: A4 not classified as a Human Carcinogen.

Section 12 ECOLOGICAL INFORMATION

No information for the product. Sodium Hypochlorite: Ecotoxicity: LC50(48hr) rainbow trout: 0.07mg/l
[Nikunen E Ecotoxicol. Environ. Saf. 1985, 9, 84-91] LC50(96hr) fathead minnow 5.9mg/l
[Curtis M.W et al J Hydrol 1981, 51, 359]

Section 13 DISPOSAL CONSIDERATIONS

Dispose in an approved chemical disposal area or in a manner, which complies with all local, state and federal regulations. Do not flush into sewer.

Section 14 TRANSPORT INFORMATION

UN NUMBER Not applicable **UN PROPER SHIPPING NAME** Sodium Hypochlorite Solution

CLASS None **PACKING GROUP** Not applicable **HAZCHEM CODE** not applicable

Section 15	REGULATORY INFORMATION
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NOHSC Labelling – not required (less than 5% chlorine) However cautionary labeling is advised.
Irritant. **Risk Phrases** – R36/38 Irritating to eyes and skin, R31 Contact with acids liberates toxic gas.
Safety Phrases – S1/2 Keep locked up and out of reach of children, S26 In case of contact with eyes
rinse immediately with plenty of water and seek medical advice, S37/39 Wear suitable gloves and
eye/face protection S45 In case of accident or if you feel unwell seek medical advice immediately
(Show label whenever possible).
SUSDP Labelling – Not a scheduled poison.

Section 16	OTHER INFORMATION
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DATE OF LAST REVISION OF MATERIAL SAFETY DATA SHEET

22nd August 2008

CONTACT POINT – Les Buss – TELEPHONE (08) 9309 4222

AUTHORISATION FOR ISSUE _____ DATE ____/____/_____
Les Buss

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