

# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 08.08.2014

Revision: 01.08.2014

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** CHLOR KLENZ**Other Name:** Sodium hydroxide solution containing sodium hypochlorite.**Recommended Use of the Chemical and Restriction on Use:**

A heavy duty, chlorinated, alkaline detergent, for the removal of fat and protein deposits.

**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:**

corrosion

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



Acute Tox. 4 H332 Harmful if inhaled.

**Label Elements****Signal Word** Danger**Hazard Statements**

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

**Precautionary Statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

P310 Immediately call a POISON CENTER/doctor.

P312 Call a POISON CENTER/doctor if you feel unwell.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

**Additional Information** AUH031 Contact with acids liberates toxic gas.

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## 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterization: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

1310-73-2	Sodium hydroxide (Na(OH)) ⚠ Skin Corr. 1A, H314	10-30%
7681-52-9	Hypochlorous acid, sodium salt ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400	<10%
7782-50-5	Chlorine ⚠ Acute Tox. 3, H331; ⚠ Aquatic Acute 1, H400; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	5.04%

## 4 . FIRST AID MEASURES

**Inhalation:** If inhaled, remove to fresh air, rest and keep warm. Seek medical attention.**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash skin and hair with running water. Seek medical attention.

**Eye Contact:**

In case of eye contact, hold eyelids apart and flush eye with running water for at least 15 minutes or until advised to stop by Poisons Information Centre or a doctor. Seek immediate medical attention.

**Ingestion:** If swallowed, do not induce vomiting. Seek immediate medical attention.**Information for Doctor**

Product is a concentrated solution of sodium hydroxide containing a low proportion of sodium hypochlorite. Corrosive to living tissues. Risk of serious damage to eyes. If swallowed, may cause holes in stomach and intestines; gastric lavage may be contraindicated. Contact Poisons Information Centre.

## 5 . FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Water fog or fine water spray.**Specific Hazards Arising from the Chemical:**

Contact with active metals such as aluminium, tin, zinc or galvanised iron may generate flammable hydrogen gas. Combustion products include chlorine, hydrogen chloride and water vapour.

**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 self-contained breathing apparatus and full protective clothing. Evacuate all non-essential 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. Slippery when spilled.

For small spills: If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise absorb spill with inert absorbent material and transfer to a suitable container and arrange removal by a disposals company.

For large spills: absorb spill with sand, earth or other absorbent material. Transfer both solids and liquids to a

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suitable container for disposal. Treat residues as for small spillages.

## 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 a cool, dry and well ventilated area, out of reach of children. Keep container tightly closed. Store only in original container out of direct sunlight. Protect from physical damage. Keep away from acids, acidic salts, active metals such as aluminium, tin, zinc and galvanised iron, ammonium compounds, glass, wood and paper products. Large quantities should be stored in a bunded dangerous goods store.

## 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Standards:****1310-73-2 Sodium hydroxide (Na(OH))**

NES	TWA: 2 mg/m <sup>3</sup> Peak limitation: 2 mg/m <sup>3</sup>
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**7782-50-5 Chlorine**

NES	TWA: 3 mg/m <sup>3</sup> , 1 ppm Peak limitation: 3 mg/m <sup>3</sup> , 1 ppm
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**Engineering Controls:**

Ensure adequate ventilation of the workplace. If handling industrial quantities, or if vapour/mist 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, such as face shield and safety glasses. See Australian/New Zealand Standard AS/NZS 1337 for more information.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

**Form:** Mobile liquid

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<b>Colour:</b>	Clear, colourless
<b>Odour:</b>	Slight odour of chlorine bleach
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	Very alkaline (about 14)
<b>Melting point/Melting range:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	> 100 °C
<b>Flash Point:</b>	Not applicable.
<b>Flammability:</b>	Product is not flammable.
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Vapour Pressure:</b>	No information available
<b>Density:</b>	No information available
<b>Relative Density:</b>	1.18 g/mL
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Miscible in all proportions
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>% Volatiles by Volume:</b>	About 71 % (water)
<b>VOC:</b>	Nil

## 10 . STABILITY AND REACTIVITY

### Possibility of Hazardous Reactions:

Product is an alkaline mixture, will react vigorously or violently with acids, generating chlorine, a toxic gas. Will absorb carbon dioxide from air, forming sodium carbonate. May lose chlorine gas slowly on storage, more quickly when contaminated. Contact with aluminium, tin, zinc or galvanised iron may generate hydrogen, a flammable gas. Contact with ammonium compounds may generate ammonia, a toxic gas. Will attack wood and wood products such as paper, cardboard and chipboard. May attack glass on long contact.

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** Exposure to air, physical damage and direct sunlight.

### Incompatible Materials:

Acids and acidic salts, active metals such as aluminium, tin, zinc and galvanised iron, ammonium compounds, wood and paper products.

**Hazardous Decomposition Products:** Chlorine, hydrogen chloride.

## 11 . TOXICOLOGICAL INFORMATION

### Toxicity:

<b>LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:</b>		
<b>1310-73-2 Sodium hydroxide (Na(OH))</b>		
Oral	LDLo	500 mg/kg (rabbit)
<b>7681-52-9 Hypochlorous acid, sodium salt</b>		
Oral	LD <sub>50</sub>	5800 mg/kg (mouse)
		8910 mg/kg (rat)
	TDL <sub>0</sub>	1000 mg/kg (human) (woman)

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7782-50-5 Chlorine	
LC <sub>50</sub> /1 h	137 ppm (mouse) 293 ppm (rat)
LCLo	500 ppm/5 minutes (human)

**Acute Health Effects****Inhalation:**

Vapours will cause irritation of the nose and throat with inflammation of the lungs. High vapour levels of chlorine can cause coughing, difficulty breathing, chest pains, swelling of the mucous membranes and cramps in the muscles of the larynx, creating risk of suffocation.

**Skin:** Corrosive, may cause severe, deep burns.

**Eye:** Corrosive, risk of serious damage to the eyes, corneal burns and possible loss of sight.

**Ingestion:**

Corrosive, will cause burns to the lips, mouth, throat and stomach. Can cause holes in stomach and intestines. Other effects include nausea, vomiting, abdominal pains, occasionally bloody diarrhoea, swelling of the larynx and subsequent suffocation. Possibility of heart failure, coma and death.

**Skin Corrosion / Irritation:** Causes severe skin burns.

**Serious Eye Damage / Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.

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

**Carcinogenicity:**

Hypochlorous acid, sodium salt is 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:**

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:**

Repeated or prolonged exposure to chlorine vapours may cause corrosion of the teeth and chloracne. Repeated contact with sodium hydroxide can cause skin irritation.

**Existing Conditions Aggravated by Exposure:** Pre-existing skin disorders.

## 12 . ECOLOGICAL INFORMATION

**Ecotoxicity:** Harmful to aquatic organisms. Will release chlorine to air and water.

**Aquatic toxicity:** No information available

**Persistence and Degradability:** No information available

**Bioaccumulative Potential:** No information available

**Mobility in Soil:** No information available

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## 13 . DISPOSAL CONSIDERATIONS

**Disposal Methods and Containers:**

Avoid disposal to drains, natural waters or the environment. Do not use metal containers. Dispose according to applicable local and state government regulations.

**Special Precautions for Landfill or Incineration:**

Not suitable for incineration. Please consult your state Land Waste Management Authority for more information.

## 14 . TRANSPORT INFORMATION

<b>UN Number</b>	
<b>ADG</b>	UN3266
<b>Proper Shipping Name</b>	
<b>ADG</b>	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (sodium hydroxide, sodium hypochlorite)
<b>Dangerous Goods Class</b>	
<b>ADG Class:</b>	8 Corrosive substances.
<b>Packing Group:</b>	
<b>ADG</b>	II
<b>Hazchem Code:</b>	2X
<b>Special Provisions:</b>	274
<b>Limited Quantities:</b>	1L
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P001, IBC02
<b>Packagings &amp; IBCs - Special Packing Provisions:</b>	Not applicable
<b>Portable Tanks &amp; Bulk Containers - Instructions:</b>	T11
<b>Portable Tanks &amp; Bulk Containers - Special Provisions:</b>	TP2, TP27

## 15 . REGULATORY INFORMATION

**Australian Inventory of Chemical Substances:**

1310-73-2	Sodium hydroxide (Na(OH))
7681-52-9	Hypochlorous acid, sodium salt
7732-18-5	Water

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

Poisons Schedule: 6

## 16 . OTHER INFORMATION

**Creation Date:** 01.08.2014**Last Revision of MSDS:** 01.09.2009**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://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

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ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds

LC<sub>50</sub>: Lethal concentration, 50 percentLD<sub>50</sub>: 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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