

# Safety Data Sheet

according to WHS Regulations

Printing date 21.07.2020

Revision: 21.07.2020

## 1 Identification

**Product Name:** CHLORODET

**Other Means of Identification:**

**Other Name:** Disinfectant solution.

**Recommended Use of the Chemical and Restriction on Use:**

Multi-purpose sanitising solution for general farm use.

**Details of Manufacturer or Importer:**

DASCO Pty Ltd

24 - 26 Helen Street

Heidelberg Heights VIC 3081

**Phone Number:** (03) 9459 7004

**Emergency telephone number:** National Poison Information Centre: 13 11 26

## 2 Hazard(s) Identification

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



corrosion

Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.



Skin Sensitisation 1

H317 May cause an allergic skin reaction.

Aquatic Acute 3

H402 Harmful to aquatic life.

Aquatic Chronic 3

H412 Harmful to aquatic life with long lasting effects.

**Signal Word** Danger

**Hazard Statements**

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+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.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

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**Product Name: CHLORODET**

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## 3 Composition and Information on Ingredients

**Chemical Characterization: Mixtures****Description:** No reportable hazardous substances or complex substances.**Hazardous Components:**

CAS: 18472-51-0	Chlorhexidine gluconate ⚠ Serious Eye Damage/Irritation 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Corrosion/Irritation 2, H315; ⚠ Skin Sensitisation 1, H317; ⚠ Aquatic Acute 2, H401	<10%
CAS: 125-12-2	Isobornyl acetate Flammable Liquids 4, H227	<10%
CAS: 64-17-5	Ethanol ⚠ Flammable Liquids 2, H225; ⚠ Serious Eye Damage/Irritation 2A, H319	<10%
CAS: 84133-50-6	Alcohols, C12-C14-secondary, ethoxylated ⚠ Serious Eye Damage/Irritation 1, H318; ⚠ Acute Toxicity (Oral) 4, H302; ⚠ Acute Toxicity (Inhalation) 4, H332; ⚠ Skin Corrosion/Irritation 2, H315; ⚠ Aquatic Acute 2, H401	<1%

## 4 First Aid Measures

**Inhalation:** If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.**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.

**Eye 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 medical attention.

**Ingestion:**

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.

**Symptoms Caused by Exposure:**

Inhalation: May cause irritation to the upper respiratory system. Aspiration of froth into lungs during swallowing or vomiting may cause chemical pneumonitis (irritation of lung tissues) and pulmonary oedema (fluid build up in the lungs). Onset of symptoms may be delayed. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Contact: May cause mild skin irritation. Will have a degreasing effect on the skin. May cause an allergic skin reaction.

Eye Contact: Causes serious eye irritation, redness and pain.

Ingestion: May be harmful if swallowed. May cause stomach pain, nausea and vomiting.

## 5 Fire Fighting Measures

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

No fire or explosion hazard exists. Products of combustion include water vapour, oxides of nitrogen and hydrogen chloride.

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

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### 6 Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate 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. 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. Contaminated work clothing must not be allowed out of the workplace. 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 oxidising agents.

### 8 Exposure Controls and Personal Protection

**Exposure Standards:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**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 as low as possible.

**Respiratory Protection:**

Use an 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:** Mobile, frothing liquid  
**Colour:** Clear, pink

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<b>Odour:</b>	Distinctive pine odour
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	6-7 (About neutral)
<b>Melting point/freezing point:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	From 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 at 20 °C:</b>	1.0-1.1 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 93 % (water)
<b>VOC:</b>	Nil

## 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** May react with strong oxidising agents.

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

**Conditions to Avoid:** Direct sunlight.

**Incompatible Materials:** Oxidising agents.

**Hazardous Decomposition Products:** Oxides of nitrogen and hydrogen chloride.

## 11 Toxicological Information

**Toxicity:**

**LD50/LC50 Values Relevant for Classification:**

**CAS: 18472-51-0 Chlorhexidine gluconate**

Oral	LD <sub>50</sub>	1260 mg/kg (mouse)
		2000 mg/kg (rat)

### Acute Health Effects

#### Inhalation:

May cause irritation to the upper respiratory system. Aspiration of froth into lungs during swallowing or vomiting may cause chemical pneumonitis (irritation of lung tissues) and pulmonary oedema (fluid build up in the lungs). Onset of symptoms may be delayed. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### Skin:

May cause mild skin irritation. Will have a degreasing effect on the skin. May cause an allergic skin reaction.

**Eye:** Causes serious eye irritation, redness and pain.

**Ingestion:** May be harmful if swallowed. May cause stomach pain, nausea and vomiting.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

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

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**Respiratory or Skin Sensitisation:** May cause an allergic skin reaction.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**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 skin contact may lead to irritation and dermatitic effects.**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:** No information available

### 12 Ecological Information

**Ecotoxicity:** Chlorhexidine is toxic to micro-organisms.**Aquatic toxicity:** May be harmful to aquatic life with long lasting effects.**Persistence and Degradability:**

The surfactant used in this product is not considered to be readily biodegradable.

**Bioaccumulative Potential:** No information available**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** Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated

### 15 Regulatory Information

**Australian Inventory of Chemical Substances:**

CAS: 7732-18-5	Water
CAS: 18472-51-0	Chlorhexidine gluconate
CAS: 125-12-2	Isobornyl acetate
CAS: 64-17-5	Ethanol
CAS: 84133-50-6	Alcohols, C12-C14-secondary, ethoxylated

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

### 16 Other Information

**Date of Preparation or Last Revision:** 21.07.2020**Last Revision of MSDS:** 01.09.2009**Prepared by:** MSDS.COM.AU Pty Ltd

www.msds.com.au

**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

Flammable Liquids 2: Flammable liquids – Category 2

Flammable Liquids 4: Flammable liquids – Category 4

Acute Toxicity (Oral) 4: Acute toxicity - oral – Category 4

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A

Skin Sensitisation 1: Skin sensitisation, Hazard Category 1

Aquatic Acute 2: Hazardous to the aquatic environment, short-term (Acute). Category 2

Aquatic Acute 3: Hazardous to the aquatic environment, short-term (Acute). Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term (Chronic). Category 3

**Data altered compared to the previous version:**

Section 1: Other Name.

Section 1: Recommended Use of the Chemical and Restriction on Use.

Section 3: Hazardous Components.

Section 9: Odour.

Section 15: Australian Inventory of Chemical Substances.

Section 15: Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule.

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - May 2018"

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