



# SAFETY DATA SHEET

According to Safe Work Australia

Printing date 25.08.2014

Revision: 25.08.2014

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** REDENE (READY TO USE)

**Other Name:** Iodophor teat dip and spray; dilute surfactant solution containing 0.5% available iodine

**Recommended Use of the Chemical and Restriction on Use:** Teat dip and spray for dairy cows

**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:** The product is not classified as hazardous according to the Globally Harmonized System (GHS).

**Label Elements**

**Signal Word** Void

**Hazard Statements** Void

## 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterization: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Hazardous Components:**

7553-56-2	Iodine	0.5%
	⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332	

**Additional information:** Surfactant - CAS number not available - <10%

## 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.

**Information for Doctor**

Product is an aqueous solution of iodophor, containing a low proportion of a surfactant. If swallowed, vomiting should not be induced due to aspiration risk of froth into lungs. Contact Poisons Information Centre.

**Symptoms Caused by Exposure:**

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Inhalation: May cause irritation, cough and shortness of breath.

Skin contact: May cause skin irritation and dermatitis. Skin contact may cause allergic reactions, rash and acne in sensitised individuals.

Eye contact: May cause eye irritation, redness, pain, blurred vision with possible risk of corneal damage.

Ingestion: May cause gastric upset with nausea, vomiting and possible diarrhoea. Very large doses may be harmful, and may lead to thyroid insufficiency.

## 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. Hazardous combustion products include iodine, hydrogen iodide and carbon dioxide.

**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. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

**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. 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 and heat. 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 aerosol risk exists, provide exhaust ventilation or other engineering controls to keep the airborne concentrations as low as possible.

**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

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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 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 liquid. See Australian/New Zealand Standard AS/NZS 1337 for more information.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:**

<b>Form:</b>	Slightly frothing liquid
<b>Colour:</b>	Dark brown
<b>Odour:</b>	Iodine odour
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	About neutral
<b>Melting point/Melting range:</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:</b>	1 g/mL
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Miscible
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>% Volatiles by Volume:</b>	About 93 % (mostly water)
<b>VOC:</b>	<1 %

## 10. STABILITY AND REACTIVITY

**Possibility of Hazardous Reactions:** May react with strong oxidising agents.**Chemical Stability:** Stable under normal conditions.**Conditions to Avoid:** Heat and light.**Incompatible Materials:** Oxidising agents.**Hazardous Decomposition Products:** Iodine and hydrogen iodide.

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## 11 . TOXICOLOGICAL INFORMATION

**Toxicity:****LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:****Surfactant**

Oral	LD <sub>50</sub>	3000 mg/kg (rat)
Dermal	LD <sub>50</sub>	3000 mg/kg (mouse)

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

May cause irritation, cough and shortness of breath. Iodine vapours are irritating from 0.1 ppm. Effects may be severe in sensitised individuals. Aspiration of fluid into lungs during swallowing or vomiting may cause chemical pneumonitis (irritation of lung tissues) and pulmonary oedema. Onset of symptoms may be delayed.

**Skin:**

May cause skin irritation and dermatitis. Skin contact may cause allergic reactions, rash and acne in sensitised individuals.

**Eye:** May cause eye irritation, redness, pain, blurred vision with possible risk of corneal damage.

**Ingestion:**

May cause gastric upset with nausea, vomiting and possible diarrhoea. Very large doses may be harmful, and may lead to thyroid insufficiency.

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

**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.

**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:**

Iodinated glycerol is reported as neoplastic and carcinogenic by RTECS criteria (oral : rat, mouse).

**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 exposure to iodine may lead to thyroid insufficiency.

Overexposure to iodine may also lead to sensitisation and allergy, skin rash, swelling of the vocal chords, a general allergic reaction, and pain and swelling in the joints.

Chronic exposure to iodine may cause tremors, insomnia, rapid heart beat, weight loss and iodism (characterised by salivation, nasal discharge, sneezing, conjunctivitis, fever, laryngitis, bronchitis, stomatitis and skin rashes).

**Existing Conditions Aggravated by Exposure:**

Pre-existing skin disorders, thyroid dysfunction and sensitivity to iodine.

## 12 . ECOLOGICAL INFORMATION

**Ecotoxicity:****Aquatic toxicity:**

No information available

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Harmful to aquatic organisms.

**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:**

56-81-5	1,2,3-Propanetriol
7732-18-5	Water
7553-56-2	Iodine

**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](http://www.msds.com.au)**Abbreviations and acronyms:**

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

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"

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. DASCO Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty

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Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.