

Safety Data Sheet

according to WHS Regulations

Printing date 16.08.2018

Revision: 16.08.2018

1 Identification

Product Name: REDENE**Other Means of Identification:****Other Name:** Iodophor in surfactant solution**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:** 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.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Aquatic Acute 2 H401 Toxic to aquatic life.

Signal Word Danger**Hazard Statements**

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P273 Avoid release to the environment.

P280 Wear eye protection / face protection.

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.

P391 Collect spillage.

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

3 Composition and Information on Ingredients

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

CAS: 84133-50-6	Alcohols, C12-C14-secondary, ethoxylated	<15%
	 Serious Eye Damage/Irritation 2A, H319; Aquatic Acute 2, H401	

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CAS: 56-81-5	Glycerol	<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	<5%
CAS: 7553-56-2	Iodine ⚠ Aquatic Acute 1, H400; ⚠ Acute Toxicity (Dermal) 4, H312; Acute Toxicity (Inhalation) 4, H332	<5%
CAS: 7681-11-0	Potassium iodide ⚠ Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2A, H319	<1%

4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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: Iodine vapour will irritate the respiratory system at 0.1 ppm. Vapours will be unbearable at 0.3 ppm. Vapour or spray/mist will cause tightness in the chest, sore throat and headache. Symptoms of painful coughing and breathing difficulties may continue for several weeks.

Skin contact: May stain the skin.

Eye contact: Causes serious eye damage. Vapour and liquid will stain eyes.

Ingestion: May cause abdominal discomfort, nausea, vomiting and diarrhoea, salivation, excessive tearing, swelling of the eyelids, soreness and swelling of the salivary glands, metallic taste, skin rash, fever and enlarged lymph glands. Aspiration into the lungs during swallowing or vomiting may cause serious lung injury. Very large doses may cause thirst, shock, fever, suppression of urine, delirium, stupor and death.

5 Fire Fighting Measures

Suitable Extinguishing Media: Water fog or fine water spray.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon.

No fire or explosion hazard exists.

Special Protective Equipment and Precautions for Fire Fighters:

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

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear Safe Work Australia approved respiratory protection and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

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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 acids and oxidising agents.

8 Exposure Controls and Personal Protection

Exposure Standards:**CAS: 7553-56-2 Iodine**

WES	Peak limitation: 1 mg/m ³ , 0.1 ppm
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CAS: 56-81-5 Glycerol

WES	TWA: 10 mg/m ³
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Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

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:	Frothing liquid
Colour:	Dark brown
Odour:	Characteristic iodine odour
Odour Threshold:	No information available

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pH-Value:	<2.5
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	Not applicable
Flammability:	Product is not flammable.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapour Pressure:	No information available
Density:	No information available
Relative Density at 20 °C:	1.0-1.1 g/mL
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Miscible
Partition Coefficient (n-octanol/water):	No information available
% Volatiles by Volume:	About 75 % (mostly as water)
VOC:	<2 %

10 Stability and Reactivity

Possibility of Hazardous Reactions:

Heating, or contact with strong mineral acids, may generate iodine vapour. May react with strong oxidising agents.

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

Conditions to Avoid: Heat and direct sunlight.

Incompatible Materials: Oxidising agents and mineral acids.

Hazardous Decomposition Products: May decompose slowly on exposure to light generating iodine.

11 Toxicological Information

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****CAS: 56-81-5 Glycerol**

Oral	LD ₅₀	12,600 mg/kg (rat)
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CAS: 7553-56-2 Iodine

Oral	LD ₅₀	14,000 mg/kg (rat)
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CAS: 7681-11-0 Potassium iodide

Oral	LD ₅₀	1,000 mg/kg (mouse)
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Acute Health Effects**Inhalation:**

Iodine vapour will irritate the respiratory system at 0.1 ppm. Vapours will be unbearable at 0.3 ppm. Vapour or spray/mist will cause tightness in the chest, sore throat and headache. Symptoms of painful coughing and breathing difficulties may continue for several weeks.

Skin: May stain the skin.

Eye: Causes serious eye damage. Vapour and liquid will stain eyes.

Ingestion:

May cause abdominal discomfort, nausea, vomiting and diarrhoea, salivation, excessive tearing, swelling of the eyelids, soreness and swelling of the salivary glands, metallic taste, skin rash, fever and enlarged lymph

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glands. Aspiration into the lungs during swallowing or vomiting may cause serious lung injury. Very large doses may cause thirst, shock, fever, suppression of urine, delirium, stupor and death.

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

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: 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:

May cause damage to organs through prolonged or repeated exposure.

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

Chronic Health Effects:

Repeated or prolonged exposure to this product may lead to iodism and thyroid deficiency. Iodine is a sensitiser, and for some individuals repeated exposure may lead to a rash, swelling of the vocal chords, general allergic reaction and swelling and pain in the joints.

Prolonged skin contact is likely to cause irritation, damage, and may penetrate the skin, leading to symptoms similar to poisoning by other routes. Will decrease the skin which may enhance iodine penetration.

Existing Conditions Aggravated by Exposure:

Sensitivity to iodine, skin disorders, eye problems, impaired respiratory function, or disease of the thyroid, lungs or kidneys.

12 Ecological Information

Ecotoxicity:

Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

CAS: 7681-11-0 Potassium iodide

EC₅₀ 2.7-24 mg/kg (daphnia)

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

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Dangerous Goods Class Not regulated**Packing Group:** Not regulated

15 Regulatory Information

Australian Inventory of Chemical Substances:

CAS: 7732-18-5	Water
CAS: 84133-50-6	Alcohols, C12-C14-secondary, ethoxylated
CAS: 56-81-5	Glycerol
CAS: 25322-68-3	Polyethylene glycol
CAS: 7553-56-2	Iodine
CAS: 7681-11-0	Potassium iodide

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

Poisons Schedule: 6

16 Other Information

Date of Preparation or Last Revision: 16.08.2018**Prepared by:** MSDS.COM.AU Pty Ltdwww.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 percentLD₅₀: 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)

Acute Toxicity (Oral) 4: Acute toxicity – 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

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

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

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

Data compared to the previous version altered: GHS format

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 - February 2016"

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