



## Section 1: Identification of the Material and Supplier

**Product Name:** Cow Power Iodine 20

**Other Names:** Dilute, aqueous iodophor solution in surfactants.

**Proper shipping name (ADG Code):** None assigned.

**Recommended use:** As a post-milking teat sanitiser with emollient.  
Use as directed on the product label.

**Supplier:** DASCO Pty. Ltd.,  
ABN: 14 004 581 113  
24 - 26 Helen Street, HEIDELBERG HEIGHTS VIC 3081  
Tel: (03) 9459 7004 (business hours)  
Fax: (03) 9459 9200

**Emergency Phone Numbers:**

Transport/Fire Emergency: 000 (Emergency services)  
Medical Emergency: 131126 (Poisons Information Centre)

## Section 2: Hazards Identification

Classified as hazardous according to criteria of Worksafe Australia.

Non-dangerous goods.

**Risk Phrases:** R: 41 Risk of serious eye damage.

**Safety Phrases:** S: 25 Avoid contact with eyes.  
S: 26 In case of contact with eyes, rinse  
immediately with plenty of water and seek  
medical advice.

## Section 3: Composition/Information on Ingredients

**Ingredients:**

Iodine	[7553-56-2]	< 10 %
Surfactants		10 - 30 %
Other ingredients deemed not to be hazardous		10 - 30 %
Water	[7732-18-5]	to 100 %

## Section 4: First Aid Measures

For advice, contact a Poisons Information Centre (Phone 131 126) or a doctor.

Swallowed: If swallowed, do NOT induce vomiting.

Skin: If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Eyes: If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Center or a doctor, or for at least 15 minutes.

Inhaled: Remove from exposure.

### First Aid facilities:

Recommended: Eye wash. Hand wash basin.

### Advice to Doctor:

Product is an iodophor in surfactant solution. May cause serious eye damage. If swallowed, vomiting should not have been induced because of risk of aspiration of froth into the lungs. Contact Poisons Information Centre.

### Aggravated medical conditions:

*Persons with kidney, lung or thyroid disease, or dysfunction, should consult a physician before working with, or using, this product.*

## Section 5: Fire Fighting Measures

HAZCHEM Code: None assigned.

Evacuate: No.

Extinguishant: As for other materials involved.

Risk of violent reaction or explosion: No.

Products of combustion: Oxides of carbon, hydrogen iodide, iodine.

Protective Equipment: Breathing apparatus and protective gloves for fire only.

## Section 6: Accidental Release Measures

### Emergency Procedures:

Move unnecessary personnel upwind of spillage.  
Increase ventilation.  
Contain spillage.

### For large spills:

Contain spillage using sand or earth. Transfer both liquids and solids to suitable container. Treat residues as for small spillages.

### For small spills:

If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise absorb on inert absorbent, transfer to suitable closed container and arrange removal by disposals company.

## Section 7: Handling and Storage

### Precautions for safe handling:

Avoid contact with skin and eyes.  
Avoid breathing vapours.  
Keep away from oxidising agents.

### Conditions for safe storage:

Store in a cool, well ventilated place, out of reach of children.  
Large quantities should be stored in a bunded area. Store in original container. Keep container tightly closed and out of direct sunlight. Keep away from oxidising agents. Protect from physical damage. Clean up all spills and splashes promptly; avoid secondary accidents.

### Incompatibles:

Oxidising agents.

## Section 8: Exposure Controls/Personal Protection

### National Exposure Standards:

**ES-TWA:** Iodine 0.1 ppm, 1 mg/m<sup>3</sup>

**ES-STEL:** None assigned.

**ES-PEAK:** Iodine 0.1 ppm, 1 mg/m<sup>3</sup>

**Notations:** None assigned by NOHSC, but see:  
Iodine Skin [Finland, Russia]

*[Skin] indicates that this material may be absorbed via unbroken skin, and any such contact may invalidate the TLV.*

*[Peak] indicates a ceiling concentration which should not be exceeded, even momentarily.*

**Biological Limit Values:** No data found.

### Engineering Controls:

Avoid using wood or paper products as materials of construction.  
Ensure adequate ventilation (same as outdoors) when using.  
If handling industrial quantities, or if vapour/aerosol risk exists, consider local mechanical exhaust/extraction to keep airborne contamination as low as possible, and at least below the TLV.

### Personal Protective Equipment:

Avoid contact with skin and eyes. Avoid breathing vapours.  
Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:-

#### Normal Use:

Eye/face protection  
Gloves, rubber or plastic.

#### Industrial Quantities:

Face shield or safety glasses  
Gloves, rubber or plastic  
Plastic apron, sleeves and boots  
Impervious overalls.

## Section 9: Physical and Chemical Properties

Appearance: Brown liquid.  
Odour: Slight iodine odour.  
pH: Slightly acidic.  
Vapour Pressure: No data.  
Vapour Density: No data.  
Boiling Point: > 100 °C  
Melting Point: No data.  
Volatiles: About 60 % [water]  
Volatile Organic Compounds (VOC): < 1 %  
Evaporation Rate: No data.  
Solubilities: Miscible with water in all proportions.  
Specific Gravity/Density: 1.05 g/mL @ 20 °C  
Flash Point: None.  
Flammable Limits: None.  
Dust Explosion: Not applicable.  
Auto-ignition Temperature: No data.

### Other Information:

Iodophor in aqueous surfactant solution. May react with strong oxidising agents. May attack wood, paper and paper products. May be sensitive to light. Very slippery when spilled.

## Section 10: Stability and Reactivity

**Chemical Stability:** Stable under normal conditions.  
**Conditions to Avoid:** Incompatible materials, heat, light.  
**Incompatible Materials:** Oxidising agents.  
**Hazardous Decomposition Products:** Hydrogen iodide, iodine.  
**Hazardous Reactions:** Contact with concentrated mineral acids may generate iodine vapour.

## Section 11: Toxicological Information

### Health Effects:

No data available for the mixture. Information presented relates to individual ingredients.

<b>Acute:</b>	<b>Swallowed:</b>	Irritating to the gastrointestinal system. May cause gastric upset, nausea, violent vomiting, abdominal discomfort or pain. Other symptoms may include excessive salivation, a metallic taste, skin rash, swelling of the eyelids, a swelling of the salivary glands and enlarged lymph glands. An aspiration risk.
	<b>Skin:</b>	May be irritating to skin, causing redness, itching and possible pain. Will have a degreasing effect on the skin which may lead to further irritation.
	<b>Eyes:</b>	May cause severe irritation to the eyes. Risk of serious eye damage from splashes in the eye. Concentrated vapours will be irritating to the eyes.
	<b>Inhaled:</b>	Iodine vapours will be irritating to the nose, throat and upper respiratory system. Aspiration of froth into the lungs during swallowing or vomiting may cause serious chemical pneumonitis (inflammation of lung tissues), pulmonary oedema (fluid build-up in the lungs) and possible lung damage. Onset of symptoms may be delayed.
<b>Chronic:</b>		Repeated exposure to iodine may lead to thyroid hyperactivity, damage to the kidneys, and may affect the cardiovascular system. Repeated skin contact with the surfactants may lead to irritation and possible contact irritant dermatitis.
<b>LD50:</b>	Surfactants	No specific data found.
	Iodine	14,000 mg/kg oral, rat.
<b>LDLo:</b>	Iodine	28 mg/kg oral, human.
<b>TDLo:</b>	Iodine	26 mg/kg/1 year oral, woman - evidence of thyroid hyperfunction.

## Section 12: Ecological Information

<b>Ecotoxicity:</b>	Harmful to aquatic organisms.
<b>Persistence and degradability:</b>	The surfactants used in this product are not considered to be readily biodegradable.
<b>Mobility:</b>	Readily transported by water.
<b>Environmental Fate:</b>	No data.
<b>Bioaccumulative potential:</b>	No data.
<b>Other adverse environmental effects:</b>	Contains surfactants. Local concentrations will be hazardous to aquatic organisms, including fish.

## Section 13: Disposal Considerations

The generator of any wastes from this product is responsible for its proper classification, transport and disposal.

Consult appropriate local and State regulations.

**Disposal methods and containers:**

Avoid disposal to drains, natural waters or the environment.  
Do not use metal containers.

**Special precautions for landfill or incineration:**

Unsuitable for incineration.  
May not be suitable for some landfill sites.

## Section 14: Transport Information

<b>UN Number:</b>	None assigned.
<b>UN Proper shipping name:</b>	None assigned.
<b>Class and subsidiary risk:</b>	None assigned.
<b>Packaging group:</b>	None assigned.
<b>Special precautions for user:</b>	Contain spillages.
<b>HAZCHEM Code:</b>	None assigned.
<b>Material for export:</b>	Not regulated.

## Section 15: Regulatory Information

**Poisons (SUSDP):** Schedule 6  
*Iodophor with > 1.5 % available iodine.*

**Dangerous Goods:** No.

<b>Carcinogen:</b>	<b>Australia</b>	<b>IARC</b>	<b>NTP</b>	<b>RTECS</b>
	No.	No.	No.	No.

**Agricultural and Veterinary Chemicals Act:**

This product is registered with the Australian Pesticides and Veterinary Medicines Authority (**APVMA**).

**Australian Inventory of Chemical Substances (AICS):** Listed.

**Other National/International Regulations:** No data found.

## Section 16: Other information

**Date of MSDS preparation/update:** September 2009  
Complete review and re-write of all sections.

**Abbreviations:**

NOHSC - National Occupational Health and Safety Commission.  
ACGIH - American Conference of Governmental Industrial Hygienists.  
MAK - Maximum workplace concentration - Germany,  
(*maximale Arbeitsplatzkonzentration*)  
IARC - International Agency for Research on Cancer (France).  
NTP - National Toxicology Program (USA).  
RTECS - Registry of Toxic Effects of Chemical Substances.

**Literature references:**

**Available Sources of Data:**

*National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [2011(2003)] - NOHSC.*  
*Australian Dangerous Goods Code.*  
*Standard for the Uniform Scheduling of Drugs and Poisons - AHMAC.*  
*Exposure Standards for Atmospheric Contaminants in the Occupational Environment [1003]- NOHSC.*  
*List of Designated Hazardous Substances [10005] - NOHSC.*  
*Merck Index - Merck Inc.*  
*Sax's Dangerous Properties of Industrial Materials - Lewis.*  
*Handbook of Toxic and Hazardous Chemicals and Carcinogens - Sittig.*  
*Handbook of Reactive Chemical Hazards - Bretherick.*  
*Hawley's Condensed Chemical Dictionary - Wiley Interscience.*  
*AUSREG's Chemical Data Package for PCs - AUSREG Consultancy.*