



## Section 1: Identification of the Material and Supplier

**Product Name:** Bio Release - medium foam

**Other Names:** Aqueous surfactant solution.

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

**Recommended use:** As a rinse water additive for dairies.  
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: 36 Irritating to eyes.

**Safety Phrases:** S: 24/25 Avoid contact with skin and eyes.

## Section 3: Composition/Information on Ingredients

**Ingredients:**

Nonyl phenol ethoxylate	[9016-45-9]	< 10 %
Other ingredients deemed not to be harmful		< 10 %
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: Do not induce vomiting.
- Skin: Remove contaminated clothing and wash skin thoroughly.
- Eyes: Hold eyes open, flood with water for at least 15 minutes and seek medical advice.
- Inhaled: Remove from exposure.

### First Aid facilities:

Recommended: Eye wash. Hand wash basin.

### Advice to Doctor:

Product is an aqueous solution containing surfactant. Irritating to eyes. An aspiration risk if swallowed. Contact Poisons Information Centre.

### Aggravated medical conditions:

Pre-existing skin disorders.

## Section 5: Fire Fighting Measures

- HAZCHEM Code: None.
- Extinguishant: Water.
- Risk of violent reaction or explosion: No.
- Products of combustion: Water vapour, oxides of carbon, oxides of phosphorus.
- Protective Equipment: Breathing apparatus and protective gloves for fire only.

## Section 6: Accidental Release Measures

### Emergency Procedures:

Contain.  
Prevent release to natural waters.

### 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 container and arrange removal by disposals company.

## Section 7: Handling and Storage

### Precautions for safe handling:

Avoid contact with skin and eyes.  
Wear suitable gloves and eye protection.  
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.

### Incompatibles:

Oxidising agents, strong acids, caustic alkalis.

## Section 8: Exposure Controls/Personal Protection

### National Exposure Standards:

**ES-TWA:** None assigned.  
**ES-STEL:** None assigned.  
**ES-PEAK:** None.  
**Notations:** None.

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

### Engineering Controls:

Ensure adequate ventilation (same as outdoors) when using.

### Personal Protective Equipment:

Avoid contact with skin and eyes. 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: Clear, almost colourless, mobile, frothing liquid.

Odour: Mild detergent odour.

pH: About neutral.

Vapour Pressure: About 23 hPa @ 20 °C

Vapour Density: No data.

Boiling Point: From about 100 °C

Melting Point: No data.

Volatiles: 90 % [as water]

Volatile Organic Compounds (VOC): None.

Evaporation Rate: No data.

Solubilities: Miscible with water in all proportions.

Specific Gravity/Density: About 1.0 g/mL

Flash Point: None.

Flammable Limits: None.

Dust Explosion: Not applicable.

Auto-ignition Temperature: No data.

### Other Information:

Surfactant solution in water. May react with strong oxidising agents. Slippery when spilled.

## Section 10: Stability and Reactivity

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

**Conditions to Avoid:** Incompatible materials.

**Incompatible Materials:** Oxidising agents.

**Hazardous Decomposition Products:** May generate oxides of phosphorus if exposed to fire.

**Hazardous Reactions:** None known.

## Section 11: Toxicological Information

### Health Effects:

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

<b>Acute:</b>	<b>Swallowed:</b>	Likely to cause gastric upset with nausea, discomfort or pain, vomiting and diarrhoea. An aspiration risk.
	<b>Skin:</b>	May cause mild irritation. Will have a degreasing effect on the skin which may lead to further irritation.
	<b>Eyes:</b>	Irritating to eyes. Irritation may be severe on prolonged contact, and may lead to corneal burns and permanent injury.
	<b>Inhaled:</b>	An unlikely route owing to the non-volatile nature of ingredients. Aspiration of froth into the lungs during swallowing or vomiting may cause chemical pneumonitis (inflammation of lung tissues) and possible pulmonary oedema (fluid build-up in the lungs). Onset of symptoms may be delayed.
<b>Chronic:</b>		Repeated skin contact may lead to irritation and dermatitic effects. Repeated splashes into the eyes may cause irritation and possible corneal burns.
<b>LD50:</b>	Nonyl phenol ethoxylate	3,000 mg/kg oral, mouse. 3,000 mg/kg skin, mouse.
	Other ingredient #1	3,120 mg/kg oral, rat.

## Section 12: Ecological Information

<b>Ecotoxicity:</b>	May be harmful to aquatic organisms.
<b>Persistence and degradability:</b>	The surfactant used in this product is not considered to be readily biodegradable.
<b>Mobility:</b>	This product is readily transported by water.
<b>Environmental Fate:</b>	No data.
<b>Bioaccumulative potential:</b>	No data.
<b>Other adverse environmental effects:</b>	This product contains a small proportion of phosphate - spillages into natural waters may contribute to algal bloom.

## 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 natural waters or the environment.

**Special precautions for landfill or incineration:**

Unsuitable for incineration.

## Section 14: Transport Information

**UN Number:** None assigned.

**UN Proper shipping name:** Surfactant solution in water.

**Class and subsidiary risk:** None.

**Packaging group:** None.

**Special precautions for user:** Prevent spillages from entering natural waters.

**HAZCHEM Code:** None assigned.

**Material for export:** Not regulated.

## Section 15: Regulatory Information

**Poisons (SUSDP):** Not a scheduled poison.

**Dangerous Goods:** Not dangerous goods.

**Carcinogen:**

Australia	IARC	NTP	RTECS
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:** None found.

## Section 16: Other information

**Date of MSDS preparation/update:** September 2009  
General review and update 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.*