

# Material Safety Data Sheet



## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product name:** BS 1000 (R) BIODEGRADABLE SURFACTANT

**Synonyms:** Crop Care MSDS No. 15732

**CAS-No.:** 68551-13-3

**Molecular Formula:**

**Supplier:** Crop Care Australasia Pty Ltd

**ACN:** 061 362 347

**Street Address:** 77 Tingira Street

Pinkenba 4008

Australia

**Telephone:** + 61 7 3867 9100

**Facsimile:** + 61 7 3867 9110

**Emergency telephone number:** 1 800 033 111 (ALL HOURS)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Recommended use:** Biodegradable wetting and spreading agent.

**Appearance:** Clear, pale straw-coloured liquid.

CHEMICAL ENTITY	CAS NO.	PROPORTION
Alcohol alkoxyolate	68551-13-3	1000 g/L (100%)

PROPORTION (% weight per weight):

VHIGH >60, HIGH 30-60, MED 10-29, LOW 1-9, VLOW <1

This chemical is listed on the Australian Inventory of Chemical Substances (AICS).

## 3. HAZARDS IDENTIFICATION

Based on available information, not classified as hazardous according to criteria of Worksafe Australia.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

Classified as a C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.

**Poisons Schedule (Aust)/Toxic Substance (NZ):** N/A - Not Applicable

**Product name:** BS 1000 (R) BIODEGRADABLE SURFACTANT

**Substance Key:** 000501573201

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## 4. FIRST AID MEASURES

**Ingestion:** Rinse mouth with water. Give plenty of water to drink. Do NOT induce vomiting. Seek medical assistance.

**Eye contact:** Irrigate with copious quantities of water for at least 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**Skin contact:** Wash contaminated skin with plenty of water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

**Notes to physician:** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Specific hazards:** Combustible liquid.

**Fire fighting further advice:** Combustible liquid. On burning will emit toxic fumes including oxides of carbon. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion.

**Suitable extinguishing media:** Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILLS:** Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers for disposal. Wash area down with detergent and excess water.

**LARGE SPILLS:** Wear protective equipment to prevent skin and eye contamination and the inhalation of vapour. Contain using sand or soil - prevent run off into drains and waterways. Collect and seal in properly labelled drums for disposal. Wash area down with detergent and excess water. If contamination of crops or waterways has occurred advise emergency services or State Department of Agriculture.

## 7. HANDLING AND STORAGE

**Storage:** Keep out of reach of children. Store in the closed original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight.

Classified as a C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### National occupational exposure limits

No value assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia).

**Engineering measures:** Use in a well ventilated area. Keep containers closed when not in use.

**Personal protection equipment:** OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES (Short).  
Code:B -Orica Personal Protection Guide No.1, 1998

**MANUFACTURE, PACKAGING AND TRANSPORT:** Avoid eye contact, repeated or prolonged skin contact and the inhalation of vapour. Wear overalls, safety glasses and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet.

If risk of inhalation of vapour exists, wear organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**PREPARATION AND USE OF PRODUCT:** Avoid all eye and skin contact. Wear rubber/PVC gloves, safety glasses and overalls.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Clear, pale straw-coloured liquid.

**Solubility:** Soluble in water and most organic solvents.

Specific Gravity (20 C)	: 1.00	Melting Point (C)	: N App
Rel Vapour Density (air=1)	: N Av	Boiling Point (C)	: >100
Vapour Pressure (20 C)	: N Av	Decomp. Point (C)	: N Av
Flash Point (C)	: 169	Sublimation Point	: N App
Flammability Limits (%)	: N Av	pH (1% aq.soln.)	: 6-8
Autoignition Temp (C)	: N Av	Viscosity	: N Av
% Volatile by volume	: N Av	Evaporation Rate	: N Av
Solubility in water (g/L)	: N Av	(n-Butyl acetate=1)	
(Typical values only - consult specification sheet)			
N Av	= Not available	N App	= Not applicable

## 10. STABILITY AND REACTIVITY

**Stability:** Reacts with oxidising agents.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled are:

### Acute Effects

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**Ingestion:** Swallowing can result in nausea, vomiting and abdominal pain. (1)

**Eye contact:** May be an eye irritant.

**Skin contact:** Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

**Inhalation:** Not expected to cause respiratory irritation unless present as an aerosol. Inhalation of high concentrations of mist may result in respiratory irritation.

## Long Term Effects

No information available for product.

## Acute toxicity / Chronic toxicity

Oral LD50 (rabbit): >1000 mg/kg. (1)

## 12. ECOLOGICAL INFORMATION

No information available for the product.  
However for a similar product.  
Toxic to aquatic organisms.  
Readily biodegradable.

## 13. DISPOSAL CONSIDERATIONS

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return clean container to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

## 14. TRANSPORT INFORMATION

### Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

### Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA)

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Dangerous Goods Regulations for transport by air.

## 15. REGULATORY INFORMATION

Based on available information, not classified as hazardous according to criteria of Worksafe Australia.

**Poisons Schedule (Aust)/Toxic Substance (NZ):** N/A - Not Applicable

## 16. OTHER INFORMATION

### Literary reference

(1) On 'CC Info Disc Chem Safe. ACOHS Pty Ltd. 06/97  
This Material Safety Data Sheet has been prepared by SHE Pacific Pty Ltd  
on behalf of Orica Ltd and its subsidiary companies.

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Reasons For Issue : Alignment to Worksafe Requirements.

: Change in First Aid Measurements.

: Change in Health Effects Data.

Safety Data Sheets are updated frequently. Please ensure that you have  
a current copy.

(R) BS1000 is a registered Trade Mark.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Orica Limited and its subsidiaries cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.