



Material Safety Data Sheet

Page 1 of 6

Issue date: October 2007

Ecofoam BS400 Polyol

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Ecofoam BS400 Polyol

Synonym: None.

Use: Polyisocyanurate foam polyol.

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Australia
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Emergency Advice All Hours:
Technical Manager +61 2 9666 3788

2. HAZARDS IDENTIFICATION

HAZARDOUS ACCORDING TO NOHSC CRITERIA

Hazard Category: Harmful (Xn)

Hazard Classification: HAZARDOUS SUBSTANCE, NON-DANGEROUS GOOD

RISK PHRASES

R40 Limited evidence of a carcinogenic effect.

R51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

SAFETY PHRASES

S7 Keep container tightly closed.

S18 Handle and open container with care.

S24/25 Avoid contact with skin and eyes.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, contact a doctor immediately and show this container or label.

S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

Poison Schedule: None allocated [Aust].

Warning Statement:

Avoid skin and eye contact. Avoid exposure. Avoid release into the aquatic environment.

Keep container tightly closed when not in use. Store this product below 30°C.

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
POLYOL BLEND - NON-HAZARDOUS	Greater than 60%	Mixture
TRIS(2-CHLOROETHYL) PHOSPHATE	1 to 10%	115-96-8

All other ingredients are not hazardous according to NOHSC Criteria.

4. FIRST AID MEASURES

Swallowed:

If swallowed, DO NOT induce vomiting. If person is conscious give water to drink. Seek medical attention immediately.



Material Safety Data Sheet

Page 2 of 6

Issue date: October 2007

Ecofoam BS400 Polyol

Eye:

If material is splashed into eyes, immediately, flush with plenty of water for 15 minutes, ensuring eyelids are held open. If irritation persists seek medical attention.

Skin:

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with water and soap. Flush skin with water. Seek medical attention if irritation persists after washing.

Inhaled:

Remove victim to fresh air. Apply resuscitation if victim is not breathing. If trained personnel available administer oxygen if breathing is difficult.

First Aid Facilities:

Eye wash fountain, safety shower and normal washroom facilities.

Advice to Doctor:

Treat symptomatically.

In case of poisoning, contact Poisons Information Centre

In Australia call Tel: 131126

In New Zealand Tel: 034747000

5. FIRE-FIGHTING MEASURES

Fire/Explosion Hazard

If safe to do so, move undamaged containers from fire area.

FIRE FIGHTING PROCEDURES: Fire fighters to wear Self-Contained Breathing Apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended.

EXTINGUISHING MEDIA: Use extinguishing media suitable for surrounding fire situation. Use foam, water spray (fog), CO₂ or dry powder. Use water spray to cool fire-exposed containers and for large fires.

HAZARDOUS DECOMPOSITION PRODUCTS: Decomposes on heating emitting toxic and/or irritating fumes including carbon monoxide and carbon dioxide.

UNUSUAL FIRE AND EXPLOSION HAZARDS: In use, product may form flammable vapour-air mixtures. Heating may cause expansion or decomposition of material leading to violent rupture of containers. Product contains low boiling substances - containers may rupture due to pressure build-up under fire condition.

HAZCHEM CODE: None allocated [Aust]

FLAMMABILITY

This product is not flammable. This product is combustible - avoid exposure to heat, flames and ignition sources.

There may be a slight fire hazard when this product is exposed to heat or flame. Ignition sources such as naked flames, sparks, or hot surfaces (>500°C) should be avoided. Low energy ignition sources such as electrostatic discharges from surfaces or people should not pose a significant risk.

6. ACCIDENTAL RELEASE MEASURES

Remove all sources of heat and ignition. Ventilate area. Clean-up all spills immediately. Material may be slippery when spilt. Walk cautiously. Wear protective equipment to prevent skin and eye contact, as outlined in Section 8 of this Material Safety Data Sheet. Contain and absorb spill with sand, earth, vermiculite, or other inert material. Prevent run-off from entering drains, sewers or waterways. Use clean, non-sparking tools to collect absorbed material and place in properly labelled containers for disposal.



Material Safety Data Sheet

Page 3 of 6

Issue date: October 2007

Ecofoam BS400 Polyol

7. HANDLING AND STORAGE

Store in a cool, dry, well-ventilated place. Store away from sources of heat or ignition. Store below 30°C. Store away from incompatible materials. Store in tightly sealed containers. The containers should be protected from excessive heat and direct sunlight. Protect containers against physical damage and check regularly for leaks. The containers should not be left open and should be tightly closed after use. Store in original containers as approved by manufacturer. Vent containers carefully, as needed to relieve pressure. Do not eat, drink or smoke in the workplace.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

No exposure standards are available for this product, however, the following exposure standards have been assigned by [NOHSC] to the following components of the product:

POLYOL BLEND - NON-HAZARDOUS

No Exposure details available

TRIS(2-CHLOROETHYL) PHOSPHATE

No exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC)

Engineering Controls

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust ventilation system is recommended. If exhaust ventilation is not available or inadequate, use approved respirator to Australian Standards.

Personal Protection Equipment

CLOTHING: Wear suitable protective clothing to prevent skin contact.

GLOVES: Wear impervious gloves to prevent skin contact - PVC or natural rubber.

EYES: Wear safety glasses with side shields, chemical goggles or face shield to protect eyes.

RESPIRATORY PROTECTION: Avoid breathing of vapours/gases. Select and use respirators in accordance with AS/NZS 1715/1716. The use of a respirator for organic vapours with disposable or with replaceable filters is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-Contained Breathing Apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Hazy, off white liquid.
Boiling Point Melting Point:	Not determined.
Vapour Pressure:	16.0 psi @ 55°C
Specific Gravity:	1.3 @ 25°C
Flash Point:	> 65°C
Flammability Limits:	Not determined.
Solubility in Water:	Not determined.

Other Properties

None determined.

10. STABILITY AND REACTIVITY

STABILITY:

Stable under normal conditions of use. Store below 30°C.

HAZARDOUS DECOMPOSITION PRODUCTS:

Emits toxic and/or irritating fumes including carbon monoxide and carbon dioxide when heated to decomposition.

HAZARDOUS POLYMERIZATION:

Will not occur under normal conditions of use.



Material Safety Data Sheet

Page 4 of 6

Issue date: October 2007

Ecofoam BS400 Polyol

INCOMPATIBILITIES:

Strong alkalis, acids, oxidizing agents.

CONDITIONS TO AVOID:

Heat, flames, ignition sources and incompatibles. Avoid temperatures above 30°C.

11. TOXICOLOGICAL INFORMATION

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

ACUTE HEALTH EFFECTS:

Swallowed:

Harmful if swallowed.

May cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach, which may lead to nausea, vomiting and diarrhoea.

Eye:

May cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision.

Skin:

Harmful by skin contact.

May cause irritation to the skin, with effects including: redness and itchiness.

Inhaled:

Harmful if inhaled.

May cause irritation to the nose, throat and respiratory system with effects including: dizziness, headache and loss of co-ordination.

Chronic:

Prolonged or repeated skin contact may lead to dermatitis.

Prolonged or repeated exposure may lead to irreversible damage to health.

Toxicological Data:

Prolonged or repeated exposure may lead to irreversible damage to health.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

There is no information available for this product.

Mobility:

There is no information available for this product.

Persistence / Degradability:

There is no information available for this product.

Chemical Fate Information:

This substance is toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

Avoid release of this product into drains, sewers and waterways.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all relevant Local, State and Federal regulations. Dispose of material through a licensed waste contractor. Any processing, use, or contamination of this product may change the requirements for disposal. It is the responsibility of the generator of the waste to properly classify, transport and dispose of the waste.



Material Safety Data Sheet

Page 6 of 6

Issue date: October 2007

Ecofoam BS400 Polyol

[Aust/NZ] = Australian New Zealand

[Int] = International

[US] = United States of America

Removal of the heading of *Poison Schedule [Aust]*, in section 3 and 15 of this Material Safety Data Sheet (MSDS) makes this a valid health and safety document in other international jurisdictions/countries. For full compliance please contact your Federal, State or Local regulators for further information.

Disclaimer

This MSDS summarises our best knowledge of the health and safety hazard information available on the product and the measures to be used to handle and use the product safely. Each user should read this MSDS and consider the information in connection with the way the product is intended to be handled or used.

Principal References:

Information supplied by manufacturer, reference sources including the public domain.

END OF MSDS