

MATERIAL SAFETY DATA SHEET
ECO FOAM B-Side

1. PRODUCT DESCRIPTION

PRODUCT NAME:
ECO FOAM B-Side

2. HAZARDOUS INGREDIENTS:

CAS Number	Content (W/W)	
101-68-8	>30% <60%	Diphenylmethane-diisocyanate
26447-40-5	> 5% <10%	Methylenediphenyl diisocyanate
9016-87-9	>30% <60%	P-MDI

3. HAZARDOUS SUMMARY:

Emergency overview

Irritating to eyes, respiratory system and skin.
May cause sensitization by inhalation.

Potential health effects

Acute toxicity:

May cause sensitization by inhalation.

Irritation:

Irritating to eyes, respiratory system and skin.

Medical conditions aggravated by overexposure:

The isocyanate component is a respiratory sensitizer. It may cause allergic reaction leading to asthma-like spasms of the bronchial tubes and difficulty in breathing. Persons with asthmatic conditions, chronic bronchitis, other chronic respiratory diseases, recurrent eczema or pulmonary sensitization should be excluded from working with isocyanates. Once a person is diagnosed as having pulmonary sensitization (allergic asthma) to isocyanates, further exposure is not recommended. An animal study indicated that MDI might induce respiratory hypersensitivity following dermal exposure

4. FIRST-AID MEASURES

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

If on skin:

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.

Ecolink Products Group, Inc.
Environmentally Easy on the Earth
280 Nelson Street, Suite 226, Vancouver, BC V6B2E2
Phone: 604-270-0480 Fax: 604-270-0448
www.ecolinkgroup.com

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

Note to physician

Hazards: Symptoms can appear later.

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote, administer corticosteroid dose aerosol to prevent pulmonary odema.

5. FIRE-FIGHTING MEASURES

Flash point: 220 °C (open cup)

Autoignition: No data available.

Suitable extinguishing media:

water, dry extinguishing media, carbon dioxide, foam

Hazards during fire-fighting:

nitrous gases, fumes/smoke, isocyanate, vapour

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Keep containers cool by spraying with water if exposed to fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater.

Cleanup:

Dike spillage.

For small amounts: Pick up with suitable absorbent material. Shovel into open container. Do not make container pressure tight. Move container to a well-ventilated area (outside). Spill area can be decontaminated with the following recommended decontamination solution: Mixture of 90 % water, 8 % concentrated ammonia, 2 % detergent. Add at a 10 to 1 ratio. Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide.

For large amounts: If temporary control of isocyanate vapor is required, a blanket of protein foam or other suitable foam (available from most fire departments) may be placed over the spill. Transfer as much liquid as possible via pump or vacuum device into closed but not sealed containers for disposal.

For residues: The following measures should be taken for final cleanup: Wash down spill area with decontamination solution. Allow solution to stand for at least 10 minutes.

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7. HANDLING AND STORAGE

Handling

General advice:

Mix thoroughly before use. If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing.

Protection against fire and explosion:

No explosion proofing necessary.

Storage

General advice:

Formation of CO₂ and build up of pressure is possible. Keep container tightly closed and in a well-ventilated place. Outage of containers should be filled with dry inert gas at atmospheric pressure to avoid reaction with moisture.

Storage incompatibility:

General: Segregate from bases.

Storage stability:

Protect against moisture.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Diphenylmethane-4,4'- OSHA CLV 0.02 ppm 0.2 mg/m³ ;
diisocyanate (MDI) ACGIH TWA value 0.005 ppm ;

Advice on system design:

Provide local exhaust ventilation to maintain recommended P.E.L.

Personal protective equipment

Respiratory protection:

Wear the following respiratory protection if exposure limits may be exceeded: Wear a NIOSH-certified full face piece pressure demand self-contained breathing apparatus (SCBA) or a full face piece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection:

Chemical resistant protective gloves, Suitable materials, Rubber gloves, Plastic gloves

Eye protection:

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

General safety and hygiene measures:

Wear protective clothing as necessary to prevent contact. No eating, drinking, smoking or tobacco use at the place of work. Take off immediately all contaminated clothing. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form: liquid
Odour: faint odour, aromatic
Odour threshold: No data available.
Colour: dark brown
pH value: No data available.
Freezing point: 3 °C (1 ATM)
Boiling point: 200 °C (5 mmHg)
Vapour pressure: < 0.00001 mmHg (20 °C)
Density: 1.22 g/cm³ (20 °C)
Relative density: 1.22 (25 °C)
Bulk density: 10.16 lb/USg
Viscosity, dynamic: 200 mPa.s (20 °C)
Miscibility with water: Reacts with water.

10. STABILITY AND REACTIVITY

Conditions to avoid:

Avoid moisture.

Substances to avoid:

acids, alcohols, amines, water, Alkalines

Hazardous reactions:

On contact with water, gaseous decomposition products are formed, which cause build-up of pressure in tightly closed containers and possible risk of bursting.
Reacts with substances that contain active hydrogen.

Decomposition products:

Hazardous decomposition products: carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapours

Thermal decomposition:

> 230 °C

Corrosion to metals:

No corrosive effect on metal.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral:

LD50/rat: > 10,000 mg/kg

Practically nontoxic.

Inhalation:

LC50/rat: > 2.240 mg/l / 1 h

Moderately toxic.

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12. DISPOSAL CONSIDERATIONS

Waste disposal of substance:

Incinerate or dispose of in a licensed facility.
Do not discharge substance/product into sewer system.

Container disposal:

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

13. TRANSPORT INFORMATION

Land transport

TDG: Not classified as a dangerous good under transport regulations

Sea transport

IMDG: Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO: Not classified as a dangerous good under transport regulations.

14. REGULATORY INFORMATION

Federal Regulations

Registration status:

DSL, CA released / listed

WHMIS classification: D2A: Materials Causing Other Toxic Effects - Very toxic material

D2B: Materials Causing Other Toxic Effects - Toxic Material

15. OTHER INFORMATION

DISCLAIMER: The following supercedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled or lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended.

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.