

**MONO**<sup>®</sup>**Material  
Safety  
Data  
Sheet****24 Hour Emergency Phone Numbers:****Medical/Poison Control:**

In U.S.: Call 1-800-222-1222

Outside U.S.: Call your local poison control center

**Transportation/National Response****Center:**

1-800-535-5053

1-352-323-3500

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 •NOTE: The National Response Center emergency numbers to be used only in the event of  
 •chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.  
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**IMPORTANT:** Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

**Section 1 - Chemical Product / Company Information**

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.

On peut demander cette fiche signalétique (MSDS) à la langue française-canadienne.

Los Datos de Seguridad del Producto pueden obtenerse en Español si lo requiere.

<b>Product Name:</b>	MONO Window & Door Foam	<b>Revision Date:</b>	03/26/2010
<b>Product UPC Number:</b>	063213009291	<b>Supersedes:</b>	New
<b>Product Use/Class:</b>	Foam Sealant	<b>MSDS Number:</b>	00042455604
<b>Manufactured for:</b>	<b>DAP Canada</b> <b>475 Finchdene Square Unit 5</b> <b>Scarborough, Ontario M1X 1B7</b> <b>519-664-2252 (non-emergency)</b>		

**Section 2 - Hazards Identification**

**Emergency Overview:** A(n) amber thick liquid product with a slight odor. **WARNING!** May cause eye, skin, nose, throat and respiratory tract irritation. May cause sensitization by inhalation and skin contact. Harmful if inhaled. Contents under pressure. Exposure to temperatures above 120 °F may cause can to rupture. The primary adverse health effects of this product are related to the Polymeric Isocyanate (MDI) component. Therefore, adequate ventilation should be provided to avoid exceeding the exposure limits of these components (See Section 8). The likelihood of exceeding these limits are low due to the low concentration of vapor produced during normal use. However, if used indoors, mechanical ventilation or exhaust should be provided during use and until product is cured. MDI vapor can irritate the respiratory tract causing runny nose, sore throat, coughing and reduce lung function. This product has strong adhesive-like characteristics and will adhere aggressively to skin and other surfaces. If accidental contact occurs, follow the appropriate first-aid procedure described in Section 4 of this MSDS.

Refer to other MSDS sections for other detailed information.

**Effects Of Overexposure - Eye Contact:** May be irritating to eyes. Foam contact can cause physical damage due to adhesive character.

**Effects Of Overexposure - Skin Contact:** May cause sensitization by skin contact. Harmful: possible risk of irreversible effects in contact with skin. This product has strong adhesive-like characteristics and will adhere aggressively to skin and other surfaces. If accidental contact occurs, follow the appropriate first-aid procedure described in Section 4 of this MSDS.

**Effects Of Overexposure - Inhalation:** Vapors may be irritating to eyes, nose, throat, and lungs. Inhalation of vapors is irritating to the respiratory system, may cause throat pain and cough. May irritate mucous membranes with tightness in chest, coughing, or allergic asthma-like sensitivity. Extensive overexposure can lead to respiratory symptoms like bronchitis and pulmonary edema. These effects are usually reversible. Prolonged, repeated, or high exposures may cause bronchitis, pharangitis, and possibly pulmonary edema. Overexposure to Fluorocarbon may cause lightheadedness, headaches, or lethargy. Persons with cardiac arrhythmia may be at increased risk in severe exposure.

**Effects Of Overexposure - Ingestion:** Harmful or fatal if swallowed. If ingested, may cause vomiting, diarrhea, and depressed respiration. May cause irritation of mucous membranes in the mouth and digestive tract.

**Effects Of Overexposure - Chronic Hazards:** None known.

**Primary Route(s) Of Entry:** Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

**Medical Conditions which May be Aggravated by Exposure:** Asthma and asthma-like conditions may worsen from prolonged and repeated exposure.

**Carcinogenicity:**

None

**Section 3 - Composition / Information On Ingredients**

Chemical Name	CASRN	Wt%
Butyl Benzyl Phthalate (BBP)	85-68-7	5-10
Polymeric diphenylmethane diisocyanate	9016-87-9	5-10
4,4'-Methylenediphenyl diisocyanate (MDI)	101-68-8	5-10

## Section 4 - First Aid Measures

**First Aid - Eye Contact:** Immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention.

**First Aid - Skin Contact:** Use a rag to remove excess foam from skin and remove contaminated clothing. Use of a solvent, such as acetone (nail polish remover) or mineral spirits, may help in removing uncured foam residue from clothing or other surfaces (avoid eye contact). Cured foam may be physically removed by persistent washing with soap and water. If irritation develops, use mild skin cream. If irritation persists, obtain medical attention. Remove and wash contaminated clothing.

**First Aid - Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**First Aid - Ingestion:** If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. If conscious, drink plenty of water. Never give anything by mouth to an unconscious person.

**Note to Physician:** None.

**COMMENTS:** If over-exposure occurs, call your local poison control center.

## Section 5 - Fire Fighting Measures

**Extinguishing Media:** Alcohol, Carbon Dioxide, Dry Chemical, Foam, Water Fog

**Unusual Fire And Explosion Hazards:** Closed containers may burst if exposed to extreme heat or fire. Eliminate sources of ignition: heat, electrical equipment, sparks and flames.

**Special Firefighting Procedures:** Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

## Section 6 - Accidental Release Measures

**Steps To Be Taken If Material Is Released Or Spilled:** Wear proper protective equipment as specified in Section 8. Use personal protective equipment as necessary. Use absorbent material or scrape up dried material and place in container. Uncured product is very sticky, so carefully remove the bulk of the foam by scraping it up and then immediately remove residue with a rag and solvent such as polyurethane cleaner, mineral spirits, acetone (nail polish remover), paint thinner, etc. Once the product has cured, it can only be removed physically by scraping, buffing, etc. Dispose as plastic waste (foam plastic) in accordance with all applicable guidelines and regulations.

## Section 7 - Handling And Storage

**Handling:** KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Keep away from open flames, hot surfaces and sources of ignition. Use only with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing. Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates. Make sure nozzle is directed away from yourself prior to discharge.

**Storage:** Do not store at temperatures above 120 degrees F. Store containers away from excessive heat and freezing. Protect material from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from caustics and oxidizers.

## Section 8 - Exposure Controls / Personal Protection

Chemical Name	CASRN	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skin
Butyl Benzyl Phthalate (BBP)	85-68-7	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
Polymeric diphenylmethane diisocyanate	9016-87-9	N.E.	N.E.	N.E.	N.E.	N.E.	N.E.	No
4,4'-Methylenediphenyl diisocyanate (MDI)	101-68-8	0.005 PPM	N.E.	N.E.	N.E.	N.E.	0.2 MGM3	No

**Precautionary Measures:** Please refer to other sections and subsections of this MSDS.

**Engineering Controls:** Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. A

respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**Skin Protection:** Wear appropriate protective eyeglasses or chemical safety goggles. Wear appropriate protective clothing to prevent skin contact.

**Eye Protection:** Goggles or safety glasses with side shields.

**Other protective equipment:** Not required under normal use.

**Hygienic Practices:** Take off all contaminated clothing immediately. Dispose of promptly.

**Important:** Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

**Note:** An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices.

## Section 9 - Physical And Chemical Properties

<b>Boiling Range:</b>	Not Established	<b>Vapor Density:</b>	Heavier Than Air
<b>Odor:</b>	Slight	<b>Odor Threshold:</b>	Not Established
<b>Color:</b>	Amber	<b>Evaporation Rate:</b>	Slower Than n-Butyl Acetate
<b>Solubility in H2O:</b>	Not Established	<b>Specific Gravity:</b>	1.20
<b>Freeze Point:</b>	Not Established	<b>pH:</b>	Not Established
<b>Vapor Pressure:</b>	Not Established	<b>Viscosity:</b>	Not Established
<b>Physical State:</b>	Thick Liquid	<b>Flammability:</b>	Level I Aerosol
<b>Flash Point, F:</b>	Not Established	<b>Method:</b>	(Not Applicable)
<b>Lower Explosive Limit, %:</b>	Not Established	<b>Upper Explosive Limit, %:</b>	Not Established

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

## Section 10 - Stability And Reactivity

**Conditions To Avoid:** Avoid alcohols, strong bases or amines and metal compounds (such as small particle metal catalysts). Excessive heat and freezing.

**Incompatibility:** Alcohols, strong bases or amines and metal compounds (such as small particle metal catalysts).

**Hazardous Decomposition Products:** CO, CO<sub>2</sub>, NO, and traces of HCN.

**Hazardous Polymerization:** Hazardous polymerization will not occur under normal conditions.

**Stability:** Stable under recommended storage conditions.

## Section 11 - Toxicological Information

**Product LD50:** Not Established

**Product LC50:** Not Established

CASRN	Chemical Name	LD50	LC50
85-68-7	Butyl Benzyl Phthalate (BBP)	Rat:2330 mg/kg	-----

**Significant Data with Possible Relevance to Humans:** None.

## Section 12 - Ecological Information

**Ecological Information:** None known.

## Section 13 - Disposal Information

**Disposal Information:** Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

**EPA Waste Code if Discarded (40 CFR Section 261):** Dispose as hazardous waste according to all local, state, federal and provincial regulations.

## Section 14 - Transportation Information

<b>DOT Proper Shipping Name:</b>	Aerosols, non-flammable	<b>Packing Group:</b>	N.A.
<b>DOT Technical Name:</b>	N.A.	<b>Hazard Subclass:</b>	N.A.
<b>DOT Hazard Class:</b>	2.2 Non-flamm compressed gas	<b>DOT UN/NA Number:</b>	UN1950

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

## Section 15 - Regulatory Information

### CERCLA - SARA Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard, Chronic Health Hazard, Pressurized Hazard

### SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Polymeric diphenylmethane diisocyanate	9016-87-9
4,4'-Methylenediphenyl diisocyanate (MDI)	101-68-8

### Toxic Substances Control Act:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None

### Canadian WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

Canadian WHMIS Class: A, D1B, D2A, D2B

## Section 16 - Other Information

### HMIS Ratings:

Health: 2                      Flammability: 0                      Reactivity: 1                      Personal Protection: X

**Volatile Organic Compounds (VOC), less water less exempts:** g/L: 0.0      lb/gal: 0.0      wt:wt%: 0.0

**Volatile Organic Compounds (VOC), less water less exempts, less LVP-VOCs:**      wt:wt%: 0.0

**REASON FOR REVISION:** Periodic Update

<b>Legend:</b>	N.A. – Not Applicable	ACGIH – American Conference of Governmental Industrial Hygienists
	N.E. – Not Established	SARA – Superfund Amendments and Reauthorization Act of 1986
	N.D. – Not Determined	NJRTK – New Jersey Right-to-Know Law
	VOC – Volatile Organic Compound	OSHA – Occupational Safety and Health Administration
	PEL – Permissible Exposure Limit	HMIS – Hazardous Materials Identification System
	TLV – Threshold Limit Value	NTP – National Toxicology Program
	CEIL – Ceiling Exposure Limit	STEL – Short Term Exposure Limit
	LD50 – Lethal Dose 50	LC50 – Lethal Concentration 50
	F – Degree Fahrenheit	MSDS – Material Safety Data Sheet
	C – Degree Celsius	CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>