



**R.L. Adams Plastics, Inc.**  
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**Material Safety Data Sheet**

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**1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

**Product: 0.23 & 0.34 INCH PLASTIC/PLASTIC - LF**

Effective Date: 4/19/02 Date Printed: 23 APR 2003 MSD: 003986

**R.L. Adams Plastics, Inc., Wyoming, MI. 49519**  
**Customer Information Number: 800-968-2241**

**2. COMPOSITE/INFORMATION ON INGREDIENTS**

Polystyrene Polymer	CAS# 009003-53-6
1, 1-Difluoroethane	CAS# 000075-37-6
Polystyrene Film	CAS# 009003-55-8

**3. HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW

\*\*\*\*\*  
 \* Blue foam sheet. Odorless. Toxic fumes are released in fire \*  
 \* situations. \*  
 \*\*\*\*\*

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

EYE: Solid or dust may cause irritation or corneal injury due to mechanical action.

SKIN: Essentially nonirritating to the skin. Mechanical injury only. No adverse effects anticipated by skin absorption.

INGESTION: Low toxicity if swallowed. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. May cause choking or blockage of the digestive tract if swallowed.

INHALATION: Dust may cause irritation to upper respiratory tract (nose and throat). Vapors/fumes released during thermal operations such as hot wire cutting may cause eye and respiratory irritation. For difluoroethane (HFC 152a):

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Symptoms of excessive exposure may be anesthetic or narcotic effects; dizziness and drowsiness may be observed. May cause central nervous system effects. Excessive exposure may increase sensitivity to epinephrine and increase myocardial irritability (irregular heartbeats).

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Contains component(s) which, in animals, have been shown to cause kidney effects and respiratory irritation. The component(s) is/are 1, 1-difluoroethane (HFC 152a).

CANCER INFORMATION: neither polystyrene foam dust nor 1, 1-difluoroethane (HFC 152a) caused cancer in laboratory animals.

TERATOLOGY (BIRTH DEFFECTS): Contains component(s) which did not cause birth defects or any other fetal effects in lab animals. The component(s) is/are 1, 1-difluoroethane (HFC 152a).

REPRODUCTIVE EFFECTS: No relevant information found.

## 4. FIRST AID

EYE: Flush eyes with plenty of water; remove contact lenses after the first 1-2 minutes then continue flushing for several minutes. Only mechanical effects expected.

SKIN: Wash skin with plenty of water.

INGESTION: If swallowed, seek medical attention. May cause gastrointestinal blockage. Do not give laxatives. Do not induce vomiting unless directed to do so by medical personnel.

INHALATION: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

NOTE TO PHYSICIAN: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Exposure may increase "myocardial irritability." Do not administer sympathomimetic drugs such as epinephrine unless absolutely necessary.

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**5. FIRE FIGHTING MEASURES**

FLAMMABLE PROPERTIES

FLASH POINT: Not applicable

METHOD USED: Not applicable

FLAMMABILITY LIMITS

LFL: Not applicable

UFL: Not applicable

HAZARDOUS COMBUSTION PRODUCTS: Hazardous combustion products may include and not limited to carbon dioxide and carbon monoxide. Studies have found that products of combustion of this polystyrene foam insulation are no more acutely toxic than the products of combustion of other common building materials such as wood.

EXTINGUISHING MEDIA: Water fog, carbon dioxide, dry chemicals.

FIRE FIGHTING INSTRUCTIONS: This polystyrene foam plastic product is combustible. It does not contain flame retardant additive and can be easily ignited. Once ignited this product will burn, emitting a dense black smoke. During shipping, storage, and use of this product must be protected from flame or other high heat sources. During certain fabrication operations such as cutting and grinding, blowing agents contained in the foam and dust may be released. Accumulation of blowing agents and dust in the air could present flammability and explosion concerns. Provide adequate ventilation, and appropriate dust handling systems where needed. This product should not be shipped, stored or used in virtually airtight spaces to prevent the build-up of combustible vapors.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves).

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## 6. ACCIDENTIAL RELEASE MEASURES (See Section 15 for Regulatory Information)

PROTECT PEOPLE: Clear non-emergency personnel from area. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls/Personnel Protection.

PROTECT THE ENVIRONMENT: Avoid contamination of all waterways.

CLEANUP: Pickup, or if dust or in small pieces, sweep up and place in suitable container for disposal.

## 7. HANDLING AND STORAGE

HANDLING: This polystyrene foam insulation does not contain a fire-retardant additive. It is COMBUSTIBLE and must be protected from flame and other high heat sources. It should be installed with code-approved thermal barriers, or used in approved alternative constructions.

STORAGE: See Section 8, Exposure Controls/Personal Protection. See Section 10, Stability and Reactivity.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

### PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION: Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

SKIN PROTECTION: No precautions other than clean body-covering clothing should be needed.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. In dusty or misty

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RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. In dusty or misty atmospheres, use approved particulate respirator.

EXPOSURE GUIDELINE(S): 1, 10difluoroethane (HCFC 152a): 1 HG is 500 ppm. AIHA WEEL is 1000 ppm TWA.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Blue foam with plastic film;  
both sides

ODOR: Odorless

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

BOILING POINT: Not applicable

SOLUBILITY IN WATER/MISCIBILITY: None

SPECIFIC GRAVITY OR DENSITY: 0.027-0.064

## 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Avoid fire and high temperatures.  
Temperatures over 300C (572F) will release combustible gases.

INCOMPATIBILITY WITH OTHER MATERIALS: Aromatic hydrocarbons, higher (>C5) aliphatic hydrocarbons, esters, amines, higher aldehydes.

HAZARDOUS DECOMPOSITION PRODUCTS: Does not normally decompose in smoldering or flaming conditions, carbon monoxide, carbon dioxide, carbon are generated. Evolution of small amounts of hydrogen chloride and hydrogen fluoride occurs when burned or heated over 250C (482F); under high heat, non-flaming conditions, small amounts of aromatic hydrocarbons such as styrene and ethylbenzene are generated.

HAZARDOUS POLYMERIZATION: Will not occur.

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**11. TOXICOLOGY INFORMATION (See Section 3 for Potential Health Effects)**

MUTAGENICITY: For 1, 1-difluoroethene (HFC 152a). In vitro mutagenicity studies were negative in some cases and positive in other cases.

**12. ECOLOGICAL INFORMATION**

ENVIRONMENTAL FATE

MOVEMENT & PARTITIONING: No bioconcentration is expected because of the relatively high molecular weight (MW>1000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material is expected to float.

DEGRADATION & PERSISTENCE: Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected. Based largely or completely on information for blowing agent. 1, 1-difluoroethane (HFC 152a) has a stratospheric ozone depletion potential (ODP) of zero, relative to CFC 12 (ODP=1).

ECOTOXICITY: Not expected to be acutely toxic to aquatic organisms.

**13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)**

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and Local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the generator. R.L. ADAMS PLASTICS COMPANY HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF THE PARTIES HANDLING OR USING THIS MATERIAL. THE

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INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2 (Composition/Information On Ingredients).

FOR UNUSED & CONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator, landfill.

For additional information, refer to Handling & Storage Information, MSDS Section 7.

**14. TRANSPORT INFORMATION**

DEPARTMENT OF TRANSPORTATION (D.O.T): This product is not regulated by D.O.T when shipped domestically by land.

CANADIAN TDG INFORMATION: This product is not regulated by TDG when shipped domestically by land.

**15. REGULATORY INFORMATION (Not meant to be all-inclusive—selected regulations represented)**

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state, or provincial, and local laws and regulations. See other sections for health and safety information.

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**U.S. REGULATIONS**

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TOXIC SUBSTANCES CONTROL ACT (TSCA):

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

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STATE RIGHT-TO-KNOW: The following product component(s) are cited on certain lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
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1, 1-Difluoroethane	0000-75-37-6	NJ2    NJ3

NJ2 = New Jersey Environmental Hazardous Substance (present at greater than or equal to 1.0%).

NJ3 = New Jersey Workplace Hazardous Substance (present at greater than or equal to 1.0%).

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OSHA HAZARD COMMUNICATION STANDARD:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.



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**CANADIAN REGULATIONS**

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WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

This product is exempt under WHMIS.

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CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

All substances in this product are listed on the Canadian Domestic Substance List (DSL) or are not required to be listed.

**16. OTHER INFORMATION**

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATING:

Health	0
Flammability	1
Reactivity	0

MSDS STATUS: Revised section 2.