

# MD Expanding Foam Sealant

## Material Safety Data Sheet

### Section 1 Chemical Product and Company Identification

**Manufacturer**  
Federal Process Company  
4620 Richmond Road  
Cleveland OH 44128

6/30/08

**Emergency Telephone Number** Call Chemtrec at 1-800-424-9300

**Product Identifier:** Gasoila Expanding Foam  
**Product Description:** Complex Mixture  
**Product Use:** Sealing Compound

### Section 2 Composition/Information on Ingredients

Additional information is provided in the Regulatory section of this document for Sara 313, California Proposition 65, and various state right-to-know laws.

CHEMICAL NAME	CAS #	OSHA PEL	ACGIH TLV	PERCENTAGE
Methulene bischenyl Isocyanate**	101-68-8	0.02 ppm	0.005 ppm	7-20
Polymethylene Polyphenyl Isocyanate	9016-87-9	*NE	*NE	20-55
Polyether Polyol	Mixture	*NE	*NE	10-40
Dimethylether	115-10-6	*NE	*NE	0-8
Propane	74-98-6	1000 ppm	1000 ppm	2-10
Isobutane	75-28-5	*NE	*NE	2-10

\*Not established

\*\* None of the components in this product are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

### Section 3 Hazards Identification

#### HMIS HAZARD IDENTIFICATION

Health 3                      Flammability 4                      Reactivity 1

The primary adverse health effects of this material are related to the Polymeric Isocyanate (MDI) component, and, to a lesser degree, the Liquefied Petroleum Gas (Hydrocarbon) component. Adequate ventilation should be provided to avoid exceeding the exposure limits of these components. If used indoors, mechanical ventilation or exhaust should be provided during use and until foam is cured and vapor of the Liquefied Petroleum Gas (Hydrocarbon) is vented out of the building.

#### EMERGENCY OVERVIEW:

**INHALATION:** MDI vapors may cause irritation of the mucous membranes of the nose, throat or trachea, which may cause chest discomfort, coughing, and allergic asthma-like sensitivity. Airborne overexposure well above the PEL may result additionally in eye irritation, headache, chemical bronchitis, asthma-like findings or pulmonary edema.

Inhaling Liquefied Petroleum Gas (Hydrocarbon) can cause lightheadedness, headaches, or lethargy. Persons with cardiac arrhythmia may be at increased risk in severe exposure.

**INGESTION:** May cause irritation of mucous membranes in the mouth and digestive tract.

**SKIN CONTACT:** May result in localized irritation, reddening or swelling. Prolonged or repeated exposure may lead to sensitization and/or dermatitis.

EYE CONTACT: May result in eye irritation and mild corneal opacity due to adhesive character.

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#### Section 4 First Aid Measures

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EYES: In case of eye contact, flush with water for 15 minutes. Get immediate medical attention.

SKIN: Immediately clean wet foam from skin, using acetone – DO NOT USE WATER. If foam dries on skin apply generous amounts of petroleum jelly or lanolin, put on plastic gloves and wait 1 hour. With clean cloth, firmly wipe off petroleum jelly and repeat process. Do not attempt to remove dried foam with solvent. Cured foam wears off and is not harmful to health.

INHALATION: Remove to fresh air. Get immediate medical attention.

INGESTION: In case of ingestion, get immediate medical attention.

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#### Section 5 Fire Fighting Measures

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EXTINGUISHING MEDIA: Water fog, foam (Aqueous Film Forming Foam), dry chemical, carbon dioxide.

FIRE FIGHTING PROCEDURES: Fire fighters should wear full self-contained breathing apparatus and full protective clothing.

UNUSUAL HAZARDS: Avoid storage temperatures above 120 F to prevent can explosions. Avoid water contamination in closed container.

FLASH POINT: Estimated: -156 F (-104 C)

LOWER FLAMMABLE LIMIT: Lower (LEL) 1.8% (estimated)

UPPER FLAMMABLE LIMIT: Upper (UEL) 10% (estimated)

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#### Section 6 Accidental Release Measures

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Spills/Leaks: If can ruptures, protect area from heat, sparks, flames, or static electricity. Turn off sources of ignition. Vapors are heavier than air. Make sure area is adequately ventilated. Allow foaming process to complete; then dispose according to federal, state, and local regulations.

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#### Section 7 Handling and Storage

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HANDLING: Avoid contact with the skin and eyes. Use good industrial hygiene practices. Provide adequate ventilation. Keep containers closed. No smoking or open flame in storage areas.

STORAGE: Always store upright. Storage temperatures: min. 0 F., max. 100 F. Do not store containers in direct sunlight.

WASTE DISPOSAL: Dispose of cured foam per federal, state, and local regulations.

CONTAINER DISPOSAL: Dispose according to federal, state, and local regulations.

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#### Section 8 Exposure Controls/Personal Protection

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VENTILATION REQUIREMENTS: Maintain local exhaust rate to keep below TLV.

#### PERSONAL PROTECTION:

EYE: The wearing of protective glasses is recommended when handling any chemicals.

GLOVES: If prolonged or repeated skin contact is expected wear gloves as appropriate to prevent skin contact. Butyl and nitrile rubbers are recommended.

RESPIRATORY: Provide adequate ventilation in the workplace.

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#### Section 9 Physical and Chemical Properties

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PHYSICAL STATE:	Aerosol can
ODOR AND APPEARANCE:	Gel under pressure/faint hydrocarbon odor
BOILING POINT:	-43.7 F (-42 C) (Estimated for propellant)
VAPOR PRESSURE:	165 psig at 130 F
VAPOR DENSITY:	(AIR=1) Heavier than air
WATER SOLUBILITY:	N/A

SPECIFIC GRAVITY

(Water =1) 1.01 g/ml at 25 C

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**Section 10 Stability and Reactivity**

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**STABILITY:** This product is stable under recommended conditions of storage and handling. Do not store above 120 F. Cured foam will deteriorate when exposed to UV light.

**INCOMPATIBILITY:** Water, alcohols, strong bases, finely powdered metal such as aluminum, magnesium or zinc, and strong oxidizers.

**CONDITIONS/HAZARDS TO AVOID:** Contamination with water may form carbon dioxide. Avoid high heat; i.e. flames, extremely hot metal surfaces, heating elements, combustion engines, etc. Do not store in auto or direct sunlight.

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**Section 11 Toxicological Information**

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**Exposure limits:** The limits reported in Section 2 of this document refer to other physical forms of the ingredients present in this product. Limits for the formulated product have not been determined.

None of the components of this product have been reported as carcinogenic by NTP, OSHA or IARC.

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**Section 12 Ecological Information**

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**General:** Not expected to present any significant ecological problems.

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**Section 13 Disposal Information**

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Waste materials must be disposed of in accordance with your municipal, state, provincial and federal regulations. Contact the proper authorities for specific instructions.

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**Section 14 Transportation Information**

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DOT HAZARD CLASS:	Consumer commodity ORM-D
PROPER SHIPPING NAME:	Consumer commodity ORM-D
IDENTIFICATION NUMBER:	UN 1954 (Canadian Regulations Only)

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**Section 15 Regulatory Information**

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SARA – This product contains a toxic chemical (or chemicals) subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR 372).

NAME	CAS NO.	AMOUNT
Methyl bisphenyl isocyanate	101-68-8	7-20%

CERCLA – Reportable quantity – yes ..... (40 CFR 302.4) ..... (5000 lb. of Methylene bisphenyl isocyanate)

RCRA – Hazardous waste – No

DOT Proper shipping name – Consumer Commodity

Diphenylmethane Diisocyanate (cas# 101-68-8) is cited on certain state lists as follows:

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%)

PA1 = Pennsylvania hazardous substance (present at greater than or equal to 1.0%)

PA3 = Pennsylvania environmental hazardous substance (present at greater than or equal to 1.0%)

CANADIAN REGULATIONS:

WHMIS – The Canadian workplace Hazardous Material Information System Classification: This product is not a “controlled Product” under WHMIS.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA):

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

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**Section 16 Other**

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Prepared by JS

*The above information and recommendations are believed accurate and reliable. Because it is not possible to anticipate all conditions of use, additional safety precautions may be required. The Federal Process Company makes no warranty, either express or implied, including merchantability and fitness.*

*USER RESPONSIBILITY: Each user should read and understand this information and incorporate it into individual site safety programs in accordance with applicable hazard communication standards and regulations.*