



# Stevens Roofing Systems

## Material Safety Data Sheet Stevens EP FastLine Adhesive

### Section 1: Chemical Product and Company Information

**Stevens Roofing Systems**  
Carolina Plant  
1535 Elastic Plant Road  
Westfield, NC 27053  
USA

**Information Phone:** (336) 351-3131  
**Emergency Phone:** (413) 533-8100  
**CHEMTREC:** (800) 424-9300 or  
(703) 527-3887

**Product Item Number:** 2087121, 2087122  
**CAS Number:** Mixture  
**General Use:** Roofing Adhesive

NFPA Rating	
Health - 2	
Flammability - 1	
Reactivity - 0	
PPE - see Section 8	

### Section 2: Composition, Information on Ingredients

Ingredient Name	CAS #	% Wt
Polyurethane Prepolymer	Trade Secret	77.0 – 81.0
Butyl Benzyl Phthalate	85-68-7	9.0 – 13.0
Methylene Phenylene Isocyanate	101-68-8	7.0
Diphenylmethane Diisocyanate Homopolymer	25686-28-6	1.0 – 5.0

Ingredients	OSHA PEL	OSHA VPEL	ACGIH TLV
Polyurethane Prepolymer	No exposure limits established.		
Butyl Benzyl Phthalate	No exposure limits established.		
Methylene Phenylene Isocyanate	0.020 ppm - Ceiling	0.020 ppm - Ceiling	0.005 ppm - TWA
Diphenylmethane Diisocyanate Homopolymer	No exposure limits established.		

### Section 3: Hazard Identification

**Primary Entry Routes:** The primary routes of entry are inhalation, skin absorption, skin contact, eye contact, and ingestion.

**Target Organ Effects:** Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects mild, reversible kidney effects, effects on male fertility, thymus damage, testis damage, nasal damage, lung damage. Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: respiratory sensitization, effects on lung function.

**Potential Health Effects**

**Inhalation:** Breathing of vapor or mist is possible. It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing this material may be harmful. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

**Eye:** Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

**Skin:** Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Additional symptoms of skin contact may include: allergic skin reaction (delayed skin rash may be followed by blistering, scaling and other skin effects). Passage of this material into the body



# Stevens Roofing Systems

## Material Safety Data Sheet Stevens EP FastLine Adhesive

through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

**Ingestion:** Ingesting small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

**Symptoms of Exposure:** Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), runny nose, cough, headache, chest pain, difficult breathing, lung edema (fluid build-up in the lung tissue). Exposure to this product (or a component) may cause an allergic reaction (narrowing of the air passage of the lungs resulting in difficult breathing, tightness in chest, coughing and wheezing) in some sensitive individuals. Other symptoms of an allergic reaction may include itchy and watery eyes, runny and stuffy nose, sweating, flushing, hives, rapid heart rate, and lowered blood pressure.

**Carcinogenicity:** This material is not listed as a carcinogen by the Internal Agency for Research on Cancer (IRAC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA). In a study conducted by the NTP, butyl benzyl phthalate caused leukemia in female rats when fed to the animals for two years. Results in male rats were inconclusive, and it did not cause leukemia in mice. There is no evidence that this chemical causes cancer in humans. In a two-year inhalation study in rats, exposure to polymeric methylene bisphenylisocyanate (MDI) aerosol caused a significant increase in benign (noncarcinogenic) lung tumors, along with a single carcinogenic lung tumor, at the highest dose only (6 mg/m<sup>3</sup>). The tumors occurred along with irritation of the respiratory tract and the accumulation of a yellow material in the lungs. There was irritation only at 1.0 mg/m<sup>3</sup> and no effect at 0.2 mg/m<sup>3</sup>. IRAC, NTP or OSHA does not list MDI as carcinogenic.

**Developmental Information:** This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

### Section 4: First Aid Measures

**Inhalation:** If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention and keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

**Eye Contact:** If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

**Skin Contact:** Remove contaminated clothing. Flush exposed areas with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

**Ingestion:** Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

**Notes to Physicians or First Aid Providers:** This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (see Section 3 – Ingestion) when deciding whether to induce vomiting. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: respiratory tract, skin, and lungs (for example, asthma-like conditions).

### Section 5: Fire-Fighting Measures



# Stevens Roofing Systems

## Material Safety Data Sheet Stevens EP FastLine Adhesive

**Flash Point:** 200°F (93.3°C)

**Flash Point Method:** SETA

**Explosive Limit:** No data

**Autoignition Temperature:** No data

**Extinguishing Media:** Regular foam (such as AFFF), alcohol resistant (AR) foam, water fog, carbon dioxide, dry chemical

**Unusual Fire or Explosion Hazards:** Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

**Hazardous Decomposition Products:** Carbon dioxide and carbon monoxide, hydrogen cyanide, nitrogen compounds, various hydrocarbons

**Fire-Fighting Procedures:** DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Polymerization will take place under fire conditions. If polymerization occurs in a closed container, there is a possibility it will rupture violently. Cool storage container with water, if exposed to fire.

### Section 6: Accidental Release Measures

**Small Spills:** Absorb liquid on vermiculite, floor absorbent, or other absorbent material and transfer to hood. Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Persons not wearing proper personal protective equipment should be excluded from area of spill.

**Large Spills:** Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities, as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean up has been completed. Stop spill at source, dike area of spill to prevent spreading. Pump liquid to salvage tank. Neutralize spill with an aqueous solution of ammonia. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers. Eliminate all ignition sources (flares, flames, including pilot lights, electrical sparks).

### Section 7: Handling and Storage

**Handling Precautions:** Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Precautions during use: avoid prolonged or frequently repeated skin contact with this material. Wearing impervious protective gloves can minimize skin contact. As with all products of this nature, good personal hygiene is essential. Hands and other exposed areas should be washed thoroughly with soap and water after contact, especially before eating and/or smoking. Regular laundering of contaminated clothing is essential to reduce indirect skin contact with this material.

**Storage Requirements:** Store in tightly closed containers. Do not allow moisture or water contamination of product. Contamination with water can cause dangerous pressure buildup in resealed containers. Do not reseal containers if contamination is suspected. Do not store near extreme heat, open flame, or sources of ignition.

**Section 7 Notes:** Warning: Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in



# Stevens Roofing Systems

## Material Safety Data Sheet Stevens EP FastLine Adhesive

elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

### Section 8: Exposure Controls/Personal Protection

**Engineering Controls:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

**Respiratory Protection:** If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines in Section 2), a NIOSHA/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

**Eye Protection:** Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

**Skin Protection:** Wear resistant gloves such as: nitrile rubber, butyl rubber. To prevent repeated or prolonged skin contact wear impervious clothing and boots.

### Section 9: Physical and Chemical Properties

**Appearance and Physical State:** Translucent viscous liquid

**Color:** Light yellow

**Vapor Pressure:** 1.9 mmHg (for component)

**Vapor Density:** No data

**Evaporation Rate:** No data

**Specific Gravity (H<sub>2</sub>O = 1):** 1.12 @ 77°F (25°C)

**Liquid Density:** 9.28 lb/gal @ 77°F (1.12 kg/l @ 25°C)

**Boiling Point:** No data

**Percent Volatile:** 0%

**Volatile Organic Compounds (VOC):** 0 lbs/gal

**pH:** No data

### Section 10: Stability and Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Product can undergo hazardous polymerization. Avoid contact with strong alkalis, strong mineral acids, and water.

**Chemical Incompatibility:** Avoid contact with: Strong alkalis, strong mineral acids, and water.

**Hazardous Decomposition Products:** Carbon dioxide and carbon monoxide, hydrogen cyanide, nitrogen compounds, various hydrocarbons

### Section 11: Toxicological Information

**Toxicological Information:** No data

### Section 12: Ecological Information



# Stevens Roofing Systems

## Material Safety Data Sheet Stevens EP FastLine Adhesive

**Ecological Information:** No data

### Section 13: Disposal Considerations

**Waste Disposal Method:** Destroy by liquid incineration in accordance with applicable regulations.

### Section 14: Transportation Information

**U.S. Department Of Transportation (DOT) Data - 49 CFR 172.101:** Not regulated by DOT  
**Reportable Quantity (RQ) – 49 CFR 172.101:**

Component	Product Quantity (lb)
Butyl Benzyl Phthalate	935

**Other Transportation Information:** The transport information may vary with the container and mode of shipment.

### Section 15: Regulatory Information

#### U.S. Federal Regulations

**Toxic Substances Control Act (TSCA) Status:** For research and development activities only.

**CERCLA Reportable Quantity (RQ) - 40 CFR 302.4(a):**

Component	RQ (lb)
Butyl Benzyl Phthalate	100
Methylene Bisphenol Isocyanate (MDI)	5,000

**CERCLA Hazardous Substance - 40 CFR 302.4(b):** Materials without a "listed" RQ may be reportable as an "unlisted hazardous substance". See 40 CFR 302.5 (b).

**SARA 302 Components – 40 CFR 355 Appendix A:** None

**SARA 311/312 Hazard Class – 40CFR 370.2:**

Immediate	Delayed	Fire	Reactive	Sudden Release of Pressure
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**SARA 313 Components (40 CFR 372.65):**

Section 313 Components	CAS Number	Weight %
Methylene bis(phenyl isocyanate) (MDI)	101-68-8	7.07

**OSHA Process Safety Management - 29 CFR 1910.100:** None listed

**EPA Accidental Release Preventions – 40 CFR 68:** None listed

#### International Regulations

##### Inventory Status

**DSL (Canada):** The intentional ingredients of this product are NOT LISTED.

**EINCES (Europe):** This product complies with the Chemical Substance Inventory requirements.

#### State and Local Regulations

**California Proposition 65:** None

**New Jersey Right To Know (RTK) Label Information:**

Component	CAS #
BUTYL BENZYL PHTHALATE	85-68-7



# Stevens Roofing Systems

## Material Safety Data Sheet Stevens EP FastLine Adhesive

**Component**

METHYLENE BISPHENYL ISOCYANATE

**CAS #**

101-68-8

**Pennsylvania Right To Know (RTK) Label Information**

**Component**

1,2-BENZENEDICARBOXYLIC ACID, BUTYL PHENYLMETHYL ESTER  
BENZENE, 1,1'-METHYLENEBIS[4-ISOCYANATO-

**CAS #**

85-68-7  
101-68-8

### Section 16: Other Information

**Prepared by:** Stevens Roofing Systems

**Preparation Date:** January 25, 2006

**Revision History:** Changed the name of the product.

**Disclaimer:** This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Stevens Roofing Systems. The data on this sheet relates only to the specific material designated herein. Stevens Roofing Systems assumes no legal responsibility for use or reliance upon these data.