

**BURMASTIC ADHESIVE SF - 5 GAL**

Version 5.0  
 REVISION DATE: 03/19/2015

Print Date 04/21/2015

**SECTION 1 - PRODUCT IDENTIFICATION**

Trade name : **BURMASTIC ADHESIVE SF - 5 GAL**

Product code : 365700 805

COMPANY : Tremco Incorporated  
 3735 Green Road  
 Cleveland, OH 44122

Telephone : (216) 292-5000 8:30 - 5:00 EST  
 Emergency Phone : (216) 765-6727 8:30 - 5:00 EST  
 After Hours: Chemtrec 1-800-424-9300

Product use : Adhesive

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**SECTION 2 - HAZARDS IDENTIFICATION**

Emergency Overview

Black. Liquid. May cause slight irritation to the respiratory system. May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. May cause allergic respiratory sensitization. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel.

Acute Potential Health Effects/ Routes of Entry

Inhalation : May cause slight irritation to the respiratory system. May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. May cause allergic respiratory sensitization.

Eyes : Direct contact may cause mild irritation.

Ingestion : May cause gastrointestinal irritation, nausea, and vomiting.

Skin : May cause sensitization resulting in irritation, itching and redness.

Aggravated Medical Conditions

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

Chronic Health Effects

Overexposure may cause dermatitis, asthma, skin and respiratory sensitization and decreased lung function. Overexposure to maleic anhydride can cause allergic asthmatic responses and, after long-term exposure, bronchitis. Diphenylmethane diisocyanate (methylene bisphenyl isocyanate) caused an increased incidence of lung tumors in experimental animals following long term inhalation at concentrations in excess of 100 times the exposure limit. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

Target Organs: Skin, Eye, Ingestion, Lung

**SECTION 3 - PRODUCT COMPOSITION**

Chemical Name	CAS-No.	Weight %
Polyurethane Polymer	NJ TSRN# 51721300-5386P	40.0 - 70.0
Asphalt	8052-42-4	15.0 - 40.0

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bis(2-ethylhexyl)-a,4-benzenedicarboxylate	6422-86-2	15.0 - 40.0
Aromatic Hydrocarbons	68477-30-5	7.0 - 13.0
4,4'-Methylene bis(phenylisocyanate)	101-68-8	1.0 - 5.0
Maleic anhydride	108-31-6	0.1 - 1.0

**SECTION 4 - FIRST AID MEASURES**

Get immediate medical attention for any significant overexposure.

- Inhalation : Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention. Move to fresh air. If required, artificial respiration or administration of oxygen can be performed by trained personnel.
- Eye contact : Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.
- Skin contact : Clean area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
- Ingestion : Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

**SECTION 5 - FIRE FIGHTING MEASURES**

- Flash point : 149 °C, 300 °F
- Method : Setflash Closed Cup
- Lower explosion limit : Not available.
- Upper explosion limit : Not available.
- Autoignition temperature : Not available.
- Extinguishing media : If water fog is ineffective, use carbon dioxide, dry chemical or foam.
- Hazardous combustion products : Carbon monoxide and carbon dioxide can form. Hydrocyanic acid and nitrogen oxides can form.
- Protective equipment for firefighters : Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Use appropriate protective equipment. Avoid contact with material. Scrape up and transfer to appropriate container for disposal.

**SECTION 7 - HANDLING AND STORAGE**

Prevent inhalation of vapor, ingestion and contact with skin, eyes and clothing. Preferably use entire contents in one continuous work session. Do not smoke, weld, generate sparks, or use flame near container. Change soiled work clothes frequently. Clean hands thoroughly after handling. Do not store or use near food. Keep container closed when not in use. Since emptied containers retain product residue and vapor, observe precautions even after container is emptied. Store under dry warehouse conditions away from heat and all ignition sources.

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**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Personal protection equipment**

- Respiratory protection : Wear appropriate, properly fitted NIOSH/MSHA approved organic vapor or supplied air respirator when airborne contaminant level(s) are expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use.
- Hand protection : Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.
- Eye protection : Wear appropriate eye protection. Use safety glasses if eye contact is likely.
- Skin and body protection : Use disposable or impervious clothing if work clothing contamination is likely. Remove and wash contaminated clothing before reuse.
- Protective measures : Use professional judgment in the selection, care, and use.
- Engineering measures : Use general ventilation and/ or local exhaust to reduce the airborne contaminant concentration below the exposure limit listed in the MSDS

**Exposure Limits**

Chemical Name	CAS Number	Regulation	Limit	Form
Asphalt	8052-42-4	ACGIH TWA: benzene solubles	0.5 mg/m <sup>3</sup>	Inhalable fraction.as
4,4'-Methylene bis(phenylisocyanate)	101-68-8	ACGIH TWA:	0.005 ppm	
Maleic anhydride	108-31-6	ACGIH TWA:	0.1 ppm	

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

- Form : Liquid
- Color : Black
- Odor : Petroleum
- pH : Not available.
- Vapour pressure : Not available.
- Vapor density : Heavier than air
- Melting point/range : Not available.
- Freezing point : Not available.
- Boiling point/range : Not available.
- Water solubility : Insoluble
- Specific Gravity : 1.03
- % Volatile Weight : 6 %

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**SECTION 10 - REACTIVITY / STABILITY**

Substances to avoid : Amines.Water or moisture and oxidizing agents.Alcohols.Strong acids.Strong bases.  
 Stability : Material is stable under normal storage, handling, and use.  
 Hazardous polymerization : Will not occur.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Asphalt, CAS-No.: 8052-42-4  
 Acute oral toxicity (LD-50 oral) > 5,000 mg/kg ( Rat ) > 5,000 mg/kg ( Rat )  
 Acute inhalation toxicity (LC-50) > 94.4 mg/m3 ( Rat )  
 Acute dermal toxicity (LD-50 dermal) > 2,000 mg/kg ( Rabbit )

bis(2-ethylhexyl)-a,4-benzenedicarboxylate, CAS-No.: 6422-86-2  
 Acute oral toxicity (LD-50 oral) > 3,200 mg/kg ( Mouse ) > 3,200 mg/kg ( Rat ) > 5,000 mg/kg ( Rat )

4,4'-Methylene bis(phenylisocyanate), CAS-No.: 101-68-8  
 Acute oral toxicity (LD-50 oral) > 4,700 mg/kg ( Rat ) > 31,600 mg/kg ( Rat ) > 7,616 mg/kg ( Rat ) 31,600 mg/kg ( Rat ) > 2,000 mg/kg ( Rat ) > 10,000 mg/kg ( Rat )  
 Acute inhalation toxicity (LC-50) 0.369 mg/l for 4 h ( Rat ) 0.38 mg/l for 4 h ( Rat ) 0.369 mg/l for 4 h ( Rat ) 0.49 mg/l for 4 h ( Rat ) 0.178 mg/l for 1 h ( Rat ) > 2.24 mg/l for 1 h ( Rat ) 0.032 mg/l for 4 h ( Mouse ) 0.38 mg/l for 4 h ( Rat )  
 Acute dermal toxicity (LD-50 dermal) > 9,400 mg/kg ( Rabbit ) 10,000 mg/kg ( Rabbit )

Maleic anhydride, CAS-No.: 108-31-6  
 Acute oral toxicity (LD-50 oral) 465 mg/kg ( Mouse ) 1,050 mg/kg ( Albino Sprague-Dawley rat ) 900 mg/kg ( Albino Sprague-Dawley rat ) 1,090 mg/kg ( Rat ) 840 mg/kg ( Rat ) 1,090 mg/kg ( Rat ) 1,030 mg/kg ( Rat ) 1,050 mg/kg ( Rat ) 235 mg/kg ( Rat ) 409 mg/kg ( Rat ) 405 mg/kg ( Rat ) 900 mg/kg ( Rat ) 1,220 mg/kg ( Rat ) 1,000 mg/kg ( Rat )  
 Acute inhalation toxicity (LC-50) > 4.35 mg/l for 1 h ( Mouse ) > 4.35 mg/l for 1 h ( Rat )  
 Acute dermal toxicity (LD-50 dermal) 631 mg/kg ( Albino rabbit ) 398 mg/kg ( Albino rabbit ) 2,620 mg/kg ( Rabbit ) 2,620 mg/kg ( Rabbit ) > 5,000 mg/kg ( Guinea pig )

**SECTION 12 - ECOLOGICAL INFORMATION**

No Data Available

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Disposal Method : Waste not regulated under RCRA. Incinerate at EPA approved facility or dispose of waste in compliance with state and local regulations.

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**SECTION 14 - TRANSPORTATION / SHIPPING DATA**

**CFR / DOT:**

Not Regulated

**TDG:**

Not Regulated

**IMDG:**

Not Regulated

**SECTION 15 - REGULATORY INFORMATION**

**North American Inventories:**

All components are listed or exempt from the TSCA inventory.  
 This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

**U.S. Federal Regulations:**

SARA 313 Components : 4,4'-Methylene bis(phenylisocyanate) 101-68-8

SARA 311/312 Hazards : Acute Health Hazard

**OSHA Hazardous Components :**

Asphalt	8052-42-4
4,4'-Methylene bis(phenylisocyanate)	101-68-8
Maleic anhydride	108-31-6

OSHA Status: Considered : Irritant.  
 hazardous based on the : Sensitizer  
 following criteria:

OSHA Flammability : IIIB

Regulatory VOC (less water and : 67 g/l  
 exempt solvent)

VOC Method 310 : 0.00 %

**U.S. State Regulations:**

MASS RTK Components	: Asphalt	8052-42-4
	: 4,4'-Methylene bis(phenylisocyanate)	101-68-8

Penn RTK Components	: Polyurethane Polymer	NJ TSRN# 51721300-5386P
	: Asphalt	8052-42-4



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Components under California Proposition 65:

**WARNING!** Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm

**SECTION 16 - OTHER INFORMATION**

**HMIS Rating :**

Health	2
Flammability	1
Reactivity	0
PPE	

- 0 = Minimum
- 1 = Slight
- 2 = Moderate
- 3 = Serious
- 4 = Severe

**Further information:**

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

**Prepared by: Rich Mikol**

**Legend**

- ACGIH - American Conference of Governmental Hygienists
- CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
- DOT - Department of Transportation
- DSL - Domestic Substance List
- EPA - Environmental Protection Agency
- HMIS - Hazardous Materials Information System
- IARC - International Agency for Research on Cancer
- MSHA - Mine Safety Health Administration
- NDSL - Non-Domestic Substance List
- NIOSH - National Institute for Occupational Safety and Health
- NTP - National Toxicology Program
- OSHA - Occupational Safety and Health Administration

- PEL - Permissible Exposure Limit
- RCRA - Resource Conservation and Recovery Act
- RTK - Right To Know
- SARA - Superfund Amendments and Reauthorization Act
- STEL - Short Term Exposure Limit
- TLV - Threshold Limit Value
- TSCA - Toxic Substances Control Act
- TWA - Time Weighted Average
- V - Volume
- VOC - Volatile Organic Compound
- WHMIS - Workplace Hazardous Materials Information System