

# SAFETY DATA SHEET

#### 1. Identification

#### Material name: BURMASTIC ADHESIVE SF 5 GAL Material: 365700 805

#### Recommended use and restriction on use

**Recommended use:** Coatings **Restrictions on use:** Not known.

#### Manufacturer/Importer/Supplier/Distributor Information

Tremco Incorporated 3735 Green Road BEACHWOOD OH 44122 US

Contact person: Telephone: Emergency telephone number: EH&S Department 216-292-5000 1-800-424-9300 (US); 1-613-996-6666 (Canada)

#### 2. Hazard(s) identification

#### Hazard Classification

#### Health Hazards

Respiratory sensitizer	Category 1
Skin sensitizer	Category 1
Carcinogenicity	Category 1B

#### **Unknown toxicity - Health**

Acute toxicity, oral	8.74 %
Acute toxicity, dermal	26.41 %
Acute toxicity, inhalation, vapor	99.98 %
Acute toxicity, inhalation, dust or mist	100 %

#### Label Elements

Hazard Symbol:



Signal Word:

Danger



Hazard Statement:	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause cancer.
Precautionary Statements	
Prevention:	Avoid breathing dust/fume/gas/mist/vapors/spray. [In case of inadequate ventilation] wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Response:	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Wash contaminated clothing before reuse.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC):	None.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Asphalt	8052-42-4	15 - 40%
Aromatic Hydrocarbons	68477-30-5	7 - 13%
4,4'-Methylene bis(phenylisocyanate)	101-68-8	1 - 5%
Maleic anhydride	108-31-6	0.5 - 1.5%
Calcium oxide	1305-78-8	0.1 - 1%
Diphenylmethane diisocyanate	26447-40-5	0.1 - 1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

#### Ingestion:

Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Inhalation:

Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. Move to fresh air. If breathing is difficult, give oxygen.



Skin Contact:	If skin irritation occurs: Get medical advice/attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.
Eye contact:	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.
Most important symptoms/effect	s, acute and delayed
Symptoms:	May cause skin and eye irritation.
Indication of immediate medical a	ttention and special treatment needed
Treatment:	Symptoms may be delayed.
5. Fire-fighting measures	
General Fire Hazards:	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) extingu	lishing media
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	No data available.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
6. Accidental release measures	s
Personal precautions, protective equipment and emergency procedures:	Ventilate closed spaces before entering them. Evacuate area. See Section 8 of the SDS for Personal Protective Equipment. Keep upwind. Keep unauthorized personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Methods and material for containment and cleaning up:	Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Notification Procedures:	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
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Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.
7. Handling and storage	
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities:	Store locked up.

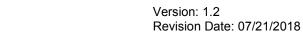
# 8. Exposure controls/personal protection

#### **Control Parameters**

#### **Occupational Exposure Limits**

Chemical Identity	Туре	Exposure Lim	it Values	Source
Asphalt - Inhalable fraction as benzene solubles	TWA		0.5 mg/m3	US. ACGIH Threshold Limit Values (2011)
4,4'-Methylene bis(phenylisocyanate)	TWA	0.005 ppm		US. ACGIH Threshold Limit Values (2011)
	Ceiling	0.02 ppm	0.2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Maleic anhydride - Inhalable fraction and vapor.	TWA		0.01 mg/m3	US. ACGIH Threshold Limit Values (02 2013)
Maleic anhydride	PEL	0.25 ppm	1 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Calcium oxide	TWA		2 mg/m3	US. ACGIH Threshold Limit Values (2011)
	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

Chemical name	Туре	Exposure Limit Values	Source
Asphalt - Aerosol, inhalable as benzene solubles	TWA	0.5 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Asphalt - Inhalable fraction as benzene solubles	TWA	0.5 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Asphalt - Fume.	TWA	5 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
4,4'-Methylene bis(phenylisocyanate)	CEILING	0.01 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	0.005 ppm	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)





4,4'-Methylene bis(phenylisocyanate)	TWA	0.005 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
	CEV	0.02 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
4,4'-Methylene bis(phenylisocyanate)	TWA	0.005 ppm 0.0	)51 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)
Maleic anhydride	TWA	0.1 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Maleic anhydride - Inhalable fraction and vapor.	TWA	0.	.01 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (06 2015)
Maleic anhydride	TWA	0.25 ppm	1.0 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (09 2017)

Appropriate Engineering Controls Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

#### Individual protection measures, such as personal protective equipment

General information:	Use personal protective equipment as required.
Eye/face protection:	Wear goggles/face shield.
Skin Protection Hand Protection:	Use suitable protective gloves if risk of skin contact.
Other:	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.
Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.
Hygiene measures:	Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.

### 9. Physical and chemical properties

Appearance	
Physical state:	liquid
Form:	Viscous Liquid
Color:	Black
Odor:	Mild petroleum/solvent
Odor threshold:	No data available.
pH:	No data available.



Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	149 °C 300 °F(Setaflash Closed Cup)
Evaporation rate:	Slower than Ether
Flammability (solid, gas):	No
Upper/lower limit on flammability or explosi	ve limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density:	1.03
Solubility(ies)	
Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.

# 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates).
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

# 11. Toxicological information

Information on likely routes of exposure		
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.	
Skin Contact:	Causes mild skin irritation. May cause an allergic skin reaction.	
Eye contact:	Eye contact is possible and should be avoided.	



Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Symptoms related to the physic	al, chemical and toxicological characteristics
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.
Information on toxicological effe	ects
Acute toxicity (list all possible	e routes of exposure)
Oral Product:	ATEmix: 220,864.66 mg/kg
Dermal Product:	ATEmix: 5,163.72 mg/kg
Inhalation Product:	Not classified for acute toxicity based on available data.
Specified substance(s): Asphalt	LC 50 (Rat): > 94.4 mg/m3
Maleic anhydride	LC 50 (Rat): > 4.35 mg/l
Calcium oxide	LC 50 (Rat): 40 mg/m3
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product: Specified substance(s):	No data available.



	Asphalt	in vivo (Rabbit): Not irritant Experimental result, Key study
	4,4'-Methylene bis(phenylisocyanate)	in vivo (Rabbit): Irritating Read-across based on grouping of substances (category approach), Key study
	Maleic anhydride	in vivo (Rabbit): Corrosive Experimental result, Weight of Evidence study
	Calcium oxide	in vivo (Rabbit): Irritating Read-across from supporting substance (structural analogue or surrogate), Key study
Pro	s Eye Damage/Eye Irritati duct: pecified substance(s):	<b>on</b> No data available.
	Asphalt	Rabbit, 24 hrs: Not irritating
	Maleic anhydride	Rabbit, 24 hrs: Highly irritating
	atory or Skin Sensitizatio oduct:	<ul> <li>n May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause sensitization by inhalation.</li> </ul>
	ogenicity duct:	May cause cancer.
IARC M	onographs on the Evalu	ation of Carcinogenic Risks to Humans:
	Asphalt	Overall evaluation: Possibly carcinogenic to humans.
<ul> <li>US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified</li> <li>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified</li> </ul>		
Germ C	Cell Mutagenicity	
	itro roduct:	No data available.
In v P	ivo roduct:	No data available.
	luctive toxicity duct:	No data available.
	c Target Organ Toxicity - duct:	Single Exposure No data available.



Specific Target Organ	Toxicity - Repeated Exposure
Product:	No data available.

Aspiration Hazard Product: No data available.

Other effects:

No data available.

# 12. Ecological information

#### Ecotoxicity:

#### Acute hazards to the aquatic environment:

Fish Product:	No data available.	
Specified substance(s): Maleic anhydride	LC 50 (Bluegill (Lepomis macrochirus), 24 h): 150 mg/l Mortality	
Aquatic Invertebrates Product:	No data available.	
Chronic hazards to the aquatic environment:		
Fish Product:	No data available.	
Specified substance(s): Asphalt	NOAEL (Oncorhynchus mykiss, 28 d): >= 1,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study LL 50 (Oncorhynchus mykiss, 28 d): > 1,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study	
Aquatic Invertebrates Product:	No data available.	
Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	



BOD/COD Ratio Product:	No data available.
Bioaccumulative potential Bioconcentration Factor (Be Product:	CF) No data available.
Partition Coefficient n-octanol / Product:	water (log Kow) No data available.
Mobility in soil:	No data available.
Other adverse effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	No data available.
14. Transport information	
TDG:	
Not Regulated	
CFR / DOT:	
Not Regulated	
IMDG:	
Not Regulated	
15. Regulatory information	
US Federal Regulations	

US Federal Regulations TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) None present or none present in regulated quantities.



#### CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity	<b>Reportable quantity</b>
Asphalt	100 lbs.
4,4'-Methylene	5000 lbs.
bis(phenylisocyanate)	
Maleic anhydride	5000 lbs.
Naphthalene	100 lbs.
Acetic acid	5000 lbs.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Delayed (Chronic) Health Hazard Immediate (Acute) Health Hazards

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

Chemical Identity	<b>Reportable quantity</b>
Asphalt	100 lbs.
4,4'-Methylene	5000 lbs.
bis(phenylisocyanate)	
Maleic anhydride	5000 lbs.
Naphthalene	100 lbs.
Acetic acid	5000 lbs.

#### SARA 311/312 Hazardous Chemical

Chemical Identity **Threshold Planning Quantity** Asphalt 10000 lbs Aromatic Hydrocarbons 10000 lbs 4,4'-Methylene 10000 lbs bis(phenylisocyanate) Maleic anhydride 10000 lbs Calcium oxide 10000 lbs Diphenylmethane 10000 lbs diisocyanate

#### SARA 313 (TRI Reporting)

<u>Chemical Identity</u> 4,4'-Methylene bis(phenylisocyanate)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

#### **US State Regulations**

#### **US. California Proposition 65**





WARNING Cancer - www.P65Warnings.ca.gov

#### US. New Jersey Worker and Community Right-to-Know Act

<u>Chemical Identity</u> Asphalt 4,4'-Methylene bis(phenylisocyanate)

#### US. Massachusetts RTK - Substance List

<u>Chemical Identity</u> Asphalt 4,4'-Methylene bis(phenylisocyanate) Crystalline Silica (Quartz)/ Silica Sand

#### US. Pennsylvania RTK - Hazardous Substances

<u>Chemical Identity</u> Asphalt 4,4'-Methylene bis(phenylisocyanate)

#### **US. Rhode Island RTK**

<u>Chemical Identity</u> Asphalt 4,4'-Methylene bis(phenylisocyanate)

#### International regulations

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### **Rotterdam convention**

Not applicable

#### Kyoto protocol

Not applicable

#### VOC:

Regulatory VOC (less water and exempt solvent)	:	53 g/l
VOC Method 310	:	5.10 %



Inventory Status: Australia AICS:	One or more components in this product are not listed on or exempt from the Inventory.
Canada DSL Inventory List:	One or more components in this product are not listed on or exempt from the Inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the Inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the Inventory.
China Inv. Existing Chemical Substances:	One or more components in this product are not listed on or exempt from the Inventory.
Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from the Inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the Inventory.
US TSCA Inventory:	One or more components in this product are not listed on or exempt from the Inventory.
New Zealand Inventory of Chemicals:	One or more components in this product are not listed on or exempt from the Inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the Inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the Inventory.

# 16.Other information, including date of preparation or last revision

Revision Date:	07/21/2018
Version #:	1.2
Further Information:	No data available.



**Disclaimer:** 

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.