

Version: 1.0 Revision Date: 08/13/2015

SAFETY DATA SHEET

1. Identification

Material name: BURMASTIC ADHESIVE SF - 5 GAL Material: 365600 805

Recommended use and restriction on use

Recommended use: Coatings Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Tremco U.S. Roofing 3735 Green Road Cleveland 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	
Skin Corrosion/Irritation	Category 2
Respiratory sensitizer	Category 1
Skin sensitizer	Category 1
Carcinogenicity	Category 2
Toxic to reproduction	Category 1B
Unknown toxicity - Health Acute toxicity, oral Acute toxicity, dermal Acute toxicity, inhalation, vapor Acute toxicity, inhalation, dust or mist	0.25 % 0.26 % 92.04 % 99.9 %
Environmental Hazards	
Acute hazards to the aquatic environment	Category 2
Unknown toxicity - Environment	
Acute hazards to the aquatic environment	81.56 %
Chronic hazards to the aquatic environment	100 %

Label Elements

Hazard Symbol:





Signal Word:	Danger
Hazard Statement:	Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer. May damage fertility or the unborn child. Toxic to aquatic life.
Precautionary Statement: Prevention:	Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. [In case of inadequate ventilation] wear respiratory protection. Contaminated work clothing must not be allowed out of the workplace. 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 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.
Other hazards which do not result in GHS classification:	None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Asphalt	8052-42-4	15 - 40%
Butyl benzyl phthalate	85-68-7	15 - 40%
Heavy aromatic naphtha	64742-94-5	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:	Get medical 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:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Most important symptoms/effect	ts, acute and delayed
Symptoms:	Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.
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) e	xtinguishing 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 measure	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.
Environmental Precautions:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer.
7. Handling and storage	
Precautions for safe handling:	Do not handle until all safety precautions have been read and understood.

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 skin. Wash hands thoroughly after handling. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, Store locked up. including any incompatibilities:

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	type	Exposure Li	nit Values	Source
Asphalt - Inhalable fraction as benzene solubles	TWA		0.5 mg/m3	US. ACGIH Threshold Limit Values (2011)
Heavy aromatic naphtha - Non-aerosol. - as total hydrocarbon vapor	TWA		200 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Heavy aromatic naphtha	PEL	100 ppm	400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
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	type	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	TWAEV	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) (12 2008)
Heavy aromatic naphtha - Non-aerosol. - as total hydrocarbon vapor	TWA	200 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013)
Heavy aromatic naphtha - Non-aerosol. - as total hydrocarbon vapor	TWAEV	200 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Heavy aromatic naphtha	TWA	400 ppm 1,590 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (11 2011)
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)	TWAEV	0.005 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
	CEV	0.02 ppm	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)



4,4'-Methylene bis(phenylisocyanate)	TWA	0.005 ppm	0.051 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)
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	TWAEV	0.1 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Maleic anhydride	TWA	0.25 ppm ~	1.0 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)

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:	Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
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. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace.



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	ive 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:	1.066
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

Ingestion:	May be ingested by accident. Ingestion may cause irritation and malaise.
Inhalation:	In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact:	Causes skin irritation. May cause an allergic skin reaction.
Eye contact:	Eye contact is possible and should be avoided.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product:	ATEmix: 220,864.66 mg/kg	
Dermal Product:	ATEmix: 5,974.46 mg/kg	
Inhalation Product:	No data available.	
Repeated dose toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	No data available.	
Serious Eye Damage/Eye Irritation Product: No data available.		
Specified substance(s): Asphalt	in vivo (Rabbit, 24 hrs): Not irritating	
Butyl benzyl phthalate	in vivo (Rabbit, 24 - 72 hrs): Not irritating	
Heavy aromatic naphtha	in vivo (Rabbit, 24 - 72 hrs): Not irritating	
4,4'-Methylene bis(phenylisocyanate)	in vivo (Rabbit, 24 - 72 hrs): Not irritating	
Maleic anhydride	in vivo (Rabbit, 24 hrs): Highly irritating	
Calcium oxide	in vivo (Rabbit, 24 hrs): Category 1	
Beeniretery or Skin Sensitizatio	_	

Respiratory or Skin Sensitization Product:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause sensitization by inhalation.



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Carcinogenicity Product:	Suspected of causing cancer.	
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:		
Asphalt	Overall evaluation: Possibly carcinogenic to humans.	
US. National Toxicology Progra No carcinogenic com	m (NTP) Report on Carcinogens: ponents identified	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified		
Germ Cell Mutagenicity		
In vitro Product:	No data available.	
In vivo Product:	No data available.	
Reproductive toxicity		
Product:	May damage fertility or the unborn child.	
Specific Target Organ Toxicity - Product:	Single Exposure No data available.	
Specific Target Organ Toxicity - Product:	Repeated Exposure No data available.	
Aspiration Hazard	No data available	
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): Butyl benzyl phthalate	LC 50 (Fathead minnow (Pimephales promelas), 96 h): 1.39 - 3.88 mg/l Mortality
Maleic anhydride	LC 50 (Bluegill (Lepomis macrochirus), 24 h): 150 mg/l Mortality



Aquatic Invertebrates Product:	No data available.	
Specified substance(s): Butyl benzyl phthalate	EC 50 (Water flea (Daphnia magna), 48 h): > 10 mg/l Intoxication EC 50 (Opossum shrimp (Americamysis bahia), 48 h): > 0.9 mg/l Mortality EC 50 (Water flea (Daphnia magna), 24 h): > 10 mg/l Intoxication EC 50 (Water flea (Daphnia magna), 21 d): > 0.76 mg/l Intoxication EC 50 (Water flea (Daphnia magna), 14 d): > 0.76 mg/l Intoxication	
Chronic hazards to the aquati	c environment:	
Fish Product:	No data available.	
Specified substance(s): Asphalt	NOAEL (Oncorhynchus mykiss, 28 d): >= 1,000 mg/l interpreted	
Butyl benzyl phthalate	NOAEL (Pimephales promelas, 126 d): 64.6 - 67.5 μ g/l experimental result	
Heavy aromatic naphtha	NOAEL (Oncorhynchus mykiss, 28 d): 0.098 mg/l QSAR	
Calcium oxide	NOAEL (Oncorhynchus mykiss, 60 d): 307 mg/l interpreted	
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 (BC Product:	CF) No data available.	
Specified substance(s): Butyl benzyl phthalate	Bluegill (Lepomis macrochirus), Bioconcentration Factor (BCF): 772 (Flow through)	
Partition Coefficient n-octan Product:	ol / water (log Kow) No data available.	
Specified substance(s): Butyl benzyl phthalate	Log Kow: 4.91	



Mobility in Soil:	No data available.
Other Adverse Effects:	Toxic to aquatic organisms.
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:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Butyl Benzyl Phthalate), 9, PG III, MARINE POLLUTANT

Further Information:

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

15. Regulatory information

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	Reportable quantity
Asphalt	100 lbs.
Butyl benzyl phthalate	100 lbs.
4,4'-Methylene	5000 lbs.
bis(phenylisocyanate)	
Maleic anhydride	5000 lbs.
Dioctyl phthalate	100 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate (Acute) Health Hazards



Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

Chemical Identity	Reportable quantity
Asphalt	100 lbs.
Butyl benzyl phthalate	100 lbs.
4,4'-Methylene	5000 lbs.
bis(phenylisocyanate)	
Maleic anhydride	5000 lbs.
Dioctyl phthalate	100 lbs.

SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

Asphalt	500 lbs
Butyl benzyl phthalate	500 lbs
Heavy aromatic naphtha	500 lbs
4,4'-Methylene	500 lbs
bis(phenylisocyanate)	
Maleic anhydride	500 lbs
Calcium oxide	500 lbs
Diphenylmethane	500 lbs
diisocyanate	

SARA 313 (TRI Reporting)

Chemical Identity

4,4'-Methylene bis(phenylisocyanate)

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

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

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

<u>Chemical Identity</u> Asphalt Butyl benzyl phthalate Heavy aromatic naphtha 4,4'-Methylene bis(phenylisocyanate)



US. Massachusetts RTK - Substance List

Chemical Identity

Asphalt Butyl benzyl phthalate Heavy aromatic naphtha 4,4'-Methylene bis(phenylisocyanate) Dioctyl phthalate Crystalline Silica (Quartz)/ Silica Sand

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity
Asphalt
Butyl benzyl phthalate
Heavy aromatic naphtha
4,4'-Methylene bis(phenylisocyanate)

US. Rhode Island RTK

Chemical Identity

Butyl benzyl phthalate 4,4'-Methylene bis(phenylisocyanate)

Other Regulations:

Regulatory VOC (less water	21 g/l	
and exempt solvent):		
VOC Method 310:	1.97 %	

Inventory Status:

Australia AICS:

Canada DSL Inventory List:

EINECS, ELINCS or NLP:

Japan (ENCS) List:

China Inv. Existing Chemical Substances:

Korea Existing Chemicals Inv. (KECI):

Canada NDSL Inventory:

Philippines PICCS:

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

All components in this product are listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.

One or more components in this product are not listed on or exempt from the Inventory.



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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:	08/13/2015
Version #:	1.0
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.