



Material Safety Data Sheet

CHEMTREC Transportation Emergency Phone:
800-424-9300
Pittsburgh Poison Control Center Health
Emergency No.: 412-681-6669

Note: The CHEMTREC Transportation Emergency Phone is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals

1. Identification

Product Name: BITUMASTIC 300M COE PART A Revision Date: 1/24/2013
 Identification Number: 0391A1NL Supercedes Date: 2/5/2010
 Product Use/Class: Coal Tar Epoxy - FOR INDUSTRIAL USE ONLY
 Manufacturer: Carboline Company Preparer: Regulatory Department
 2150 Schuetz Road
 St. Louis, MO 63146
 800-848-4645

2. Hazard Identification

EMERGENCY OVERVIEW: Contains SILICA which can cause cancer. Risk of Cancer depends on duration and level of exposure. Contains COAL TAR which can cause cancer. FLAMMABLE liquid and vapor.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Can cause eye burns.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause allergic skin reaction. Can cause skin burns.

EFFECTS OF OVEREXPOSURE - INHALATION: May cause nose and throat irritation. Harmful if inhaled, may affect the brain or nervous system, causing dizziness, headache, or nausea. May cause lung irritation. May cause allergic respiratory reaction, effects may be permanent.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Crystalline silica is known to cause silicosis, a noncancerous lung disease. Exposure is by route of inhalation. If material is in a liquid matrix it is unlikely to be inhaled. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

MEDICAL CONDITIONS PRONE TO AGGRAVATION: If you have a condition that could be aggravated by exposure to dust or organic vapors, see a physician prior to use. If sensitized to amines, epoxies, or other chemicals do not use. See a physician if a medical condition exists.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

3. Composition/Information On Ingredients

Hazardous Ingredients

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
COAL TAR PITCH	65996-93-2	35.0	0.2 MG/M3	N/E	0.2 MG/M3	N/E
TALC	14807-96-6	30.0	N/E	N/E	N/E	N/E
POLYMER of C-18 UNSAT'D FATTY	68082-29-1	15.0	N/E	N/E	N/E	N/E
META-XYLENE	108-38-3	10.0	100 ppm	150 ppm	435 MG/M3	N/E
PARA-XYLENE	106-42-3	5.0	100 ppm	150 ppm	435 MGM3	N/E
ETHYL BENZENE	100-41-4	5.0	20 ppm	N/E	435 MGM3	N/E
ORTHO-XYLENE	95-47-6	5.0	100 ppm	150 ppm	435 MG/M3	N/E

TRIS-2,4,6-(DIMETHYLAMINOMETHYL) PHENOL	90-72-2	5.0	N/E	N/E	N/E	N/E
MICROCRYSTALLINE SILICA	14808-60-7	1.0	0.025 MG/M3 (respirable)	N/E	0.1 MG/M3 (respirable)	N/E
TOLUENE	108-88-3	0.1	20 ppm	N/E	375 MGM3	N/E

4. First-aid Measures

AFTER EYE CONTACT: If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

AFTER SKIN CONTACT: Launder clothing before reuse. In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. If rash or irritation develops, consult a physician.

AFTER INHALATION: If inhaled, remove to fresh air. Administer oxygen if necessary. Consult a physician if symptoms persist or exposure was severe.

AFTER INGESTION: If swallowed do not induce vomiting. Seek immediate medical attention.

5. Fire-fighting Measures

Flash Point, °F: 75F (23C) **Lower Explosive Limit, %:** 1.0
(Setaflash) **Upper Explosive Limit, %:** 36.0

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable Liquid. Vapors are heavier than air and will accumulate. Vapors will form explosive concentrations with air. Vapors travel long distances and will flashback. Use mechanical ventilation when necessary to keep percent vapor below the "Lower Explosion Level" (LEL). Eliminate all ignition sources. Keep away from sparks, open flames and heat sources. All electric equipment and installations should be made and grounded in accordance with the National Electrical Code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and to wear conductive and non-sparking shoes.

SPECIAL FIREFIGHTING PROCEDURES: Flammable. Cool fire-exposed containers using water spray.

6. Accidental Release Measures

PERSONAL SAFETY MEASURES/ENVIRONMENTAL MEASURES/METHOD OF CLEANING/CONTAINMENT: Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Evacuate the area of unprotected personnel. Wear appropriate personal protection clothing and equipment. Follow exposure controls/personal protection guidelines in Section 8. Contain and soak up residual with an absorbent (clay or sand). Take up absorbant material and seal tightly for proper disposal. Dispose of in accordance with local, state and federal regulations. Refer to Section 15 for SARA Title III and CERCLA information.

7. Handling and Storage

INSTRUCTIONS FOR SAFE HANDLING: Do not get in eyes, on skin, or on clothing. Keep container tightly closed when not in use. Wear personal protection equipment. Do not breathe vapors. Wash thoroughly after handling. If pouring or transferring materials, ground all containers and tools. Do not weld, heat, cut or drill on full or empty containers. Use only in accordance with Carboline application instructions, container label and Product Data Sheet. Avoid breathing vapors or spray mist.

STORAGE CONDITIONS: Keep away from heat, sparks, open flames and oxidizing agents. Keep containers closed. Store in a cool, dry place with adequate ventilation.

8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Use explosion-proof ventilation when required to keep below health exposure guidelines and Lower Explosion Limit (LEL).

RESPIRATORY PROTECTION: Use only with ventilation to keep levels below exposure guidelines listed in Section 2. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure, or not able to monitor, use MSHA/NIOSH approved supplied air respirator. Follow all current OSHA requirements for respirator use. For silica containing coatings in a liquid state, and/or if no exposure limits are established in Section 2 above, supplied air respirators are generally not required.

SKIN PROTECTION: Recommend impervious gloves and clothing to avoid skin contact. If material penetrates to skin, change gloves and clothing. The use of protective creams may be beneficial to certain individuals. Protective creams should be applied before exposure.

EYE PROTECTION: Recommend safety glasses with side shields or chemical goggles to avoid eye contact.

OTHER PROTECTIVE EQUIPMENT: Eye wash and safety showers should be readily available.

PROTECTION AND HYGIENE MEASURES: Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Use of a hand cleaner is recommended. Launder contaminated clothing before reuse. Leather shoes can absorb and allow hazardous materials to pass through. Check shoes carefully after soaking before reuse.

9. Physical and Chemical Properties

Boiling Range:	149 F (65 C) - 531 F (277 C)	Vapor Density:	HEAVIER THAN AIR
Odor:	Tar Odor	Odor Threshold:	N/D
Appearance:	Viscous Black Liquid	Evaporation Rate:	Slower than ether
Solubility in Water:	N/D	Specific Gravity:	1.32
Freeze Point:	N/D	pH:	N/D
Physical State:	Liquid	Vapor Pressure:	No Information

(See section 16 for abbreviation legend)

10. Stability and Reactivity

CONDITIONS TO AVOID: Heat, sparks and open flames.

MATERIALS TO AVOID: Keep away from strong oxidizing agents, heat and open flames.

HAZARDOUS COMPOSITION PRODUCTS: Carbon monoxide, nitrogen oxides, and unidentified organic compounds. Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe any fumes or smoke from these operations.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

11. Toxicological Information

Chemical Name	CAS-No.	LD50	LC50
COAL TAR PITCH	65996-93-2	4300 mg/kg, oral, rat	5000 ppm/4 hr, inh, rat
TALC	14807-96-6	Not Available	Not Available
POLYMER of C-18 UNSAT'D FATTY	68082-29-1	2001 mg/kg oral, rat	Not Available
META-XYLENE	108-38-3	Not Available	Not Available
PARA-XYLENE	106-42-3	Not Available	Not Available
ETHYL BENZENE	100-41-4	3500 mg/kg rat, oral	17.2 mg/L Inh, Rat, 4Hr
ORTHO-XYLENE	95-47-6	Not Available	Not Available
TRIS-2,4,6- (DIMETHYLAMINOMETHYL) PHENOL	90-72-2	2169 mg/kg oral	Not Available
MICROCRYSTALLINE SILICA	14808-60-7	Not Available	Not Available

12. Ecological Information

ECOLOGICAL INFORMATION: No data

13. Disposal Information

DISPOSAL INFORMATION: Dispose of in accordance with State, Local, and Federal Environmental regulations. Responsibility for proper waste disposal is with the owner of the waste.

14. Transport Information

DOT Proper Shipping Name:	Paint	Packing Group:	III
DOT Technical Name:	N/A	Hazard SubClass:	N/A
DOT Hazard Class:	3	Resp. Guide Page:	128
DOT UN/NA Number:	UN 1263		
Additional Notes:	No Information		

15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA HAZARD CATEGORY

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Acute Health Hazard, CHRONIC HEALTH HAZARD

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS-No.</u>
META-XYLENE	108-38-3
PARA-XYLENE	106-42-3
ETHYL BENZENE	100-41-4
ORTHO-XYLENE	95-47-6
TOLUENE	108-88-3

TOXIC SUBSTANCES CONTROL ACT:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

U.S. State Regulations:

NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product.

No NJ Right-To-Know components exist in this product.

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%.

No PA Right-To-Know components exist in this product.

CALIFORNIA PROPOSITION 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

<u>Chemical Name</u>	<u>CAS-No.</u>
ETHYL BENZENE	100-41-4
MICROCRYSTALLINE SILICA	14808-60-7
METHYL ISOBUTYL KETONE	108-10-1

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

<u>Chemical Name</u>	<u>CAS-No.</u>
TOLUENE	108-88-3
METHYL ALCOHOL	67-56-1

International Regulations:**CANADIAN WHMIS:**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

Canadian WHMIS Class: B2, D2A, D2B

16. Other Information**HMIS Ratings:**

Health: 3 Flammability: 3 Reactivity: 1 Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, GR/LTR MIXED (UNTHINNED): 222

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

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