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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 300 M PART A Revision Date: 12/17/2013

Identification Number: 0165A5NL Supercedes Date: 12/21/2010

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 material which can cause cancer. Irritating to eyes and skin. WARNING! FLAMMABLE LIQUID AND VAPOR. Keep away from heat and sources of ignition. Harmful if inhaled. Use with adequate ventilation. Vapours may cause drowsiness and dizziness. Keep container closed. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Harmful if swallowed. Risk of serious damage to the lungs (by aspiration).

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes eye burns.

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

EFFECTS OF OVEREXPOSURE - INHALATION: Harmful if inhaled. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Vapours may be irritating to eyes, nose, throat, and lungs. May cause allergic respiratory reaction.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Crystalline silica is known to cause silicosis. Crystalline silica (Quartz) is classified as a known human carcinogen (Group 1) by IARC. Exposure is by route of inhalation. If material is in a liquid matrix it is unlikely to be inhaled. When sanding or grinding the finished product, there may be potential for crystalline silica to become airborne. Repeated and prolonged exposure to solvents may cause brain and nervous system damage.

MEDICAL CONDITIONS PRONE TO AGGRAVATION: No information available.

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
CLAY	68911-87-5	5.0	NE	NE	NE	NE
ORTHO-XYLENE	95-47-6	5.0	100 PPM	150 PPM	435 MG/M3	N/E

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ETHYL ALCOHOL	64-17-5	5.0	1000 PPM	1000 PPM	1900 MGM3	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

4. First-aid Measures

AFTER EYE CONTACT: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

AFTER SKIN CONTACT: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation persists, call a physician.

AFTER INHALATION: Give oxygen or artificial respiration if needed. Remove person to fresh air. If signs/symptoms continue, get medical attention.

AFTER INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, call a poison control centre or doctor immediately.

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. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Vapors may travel to areas away from work site before igniting/flashing back to vapor source. Provide adequate ventilation. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Electrical installations / working materials must comply with the technological safety standards. Wear shoes with conductive soles.

SPECIAL FIREFIGHTING PROCEDURES: In the event of fire, wear self-contained breathing apparatus. Cool containers / tanks with water spray. Flammable.

6. Accidental Release Measures

PERSONAL SAFETY MEASURES/ENVIRONMENTAL MEASURES/METHOD OF CLEANING/CONTAINMENT: Do not allow material to contaminate ground water system. Prevent product from entering drains. Remove all sources of ignition. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Evacuate personnel to safe areas. Wear personal protective equipment. For personal protection see section 8. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

7. Handling and Storage

INSTRUCTIONS FOR SAFE HANDLING: Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing. Keep containers dry and tightly closed to avoid moisture absorption and contamination. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Ensure all equipment is electrically grounded before beginning transfer operations. Do not use sparking tools. Prepare the working solution as given on the label(s) and/or the user instructions.

STORAGE CONDITIONS: Keep container closed when not in use. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas.

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RESPIRATORY PROTECTION: In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Use only with ventilation to keep levels below exposure guidelines reported in this document. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure, or not able to monitor, use State or federally approved supplied air respirator. For silica containing coatings in a liquid state, and/or if no exposure limits are established above, air-supplied respirators are generally not required.

SKIN PROTECTION: Lightweight protective clothing. Impervious gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Request information on glove permeation properties from the glove supplier.

EYE PROTECTION: Safety glasses with side-shields

OTHER PROTECTIVE EQUIPMENT: Ensure that eyewash stations and safety showers are close to the workstation location.

PROTECTION AND HYGIENE MEASURES: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

9. Physical and Chemical Properties

Boiling Range: 149 F (65 C) - 284 F (140 C) Vapor Density: Heavier than Air

Odor: Tar Odor Odor Threshold: N/D

Appearance: Viscous Black or Red Liquid Evaporation Rate: Slower Than Ether

Solubility in Water:N/DSpecific Gravity:1.32Freeze Point:N/DpH:N/D

Physical State: Liquid Vapor Pressure: No Information

(See section 16 for abbreviation legend)

10. Stability and Reactivity

CONDITIONS TO AVOID: Heat, flames and sparks.

MATERIALS TO AVOID: Strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

HAZARDOUS POLYMERIZATION: Hazardous polymerisation does not occur.

STABILITY: Stable under normal 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
CLAY	68911-87-5	NOT AVAILABLE	NOT AVAILABLE
ORTHO-XYLENE	95-47-6	Not Available	Not Available
ETHYL ALCOHOL	64-17-5	7060 mg/kg, oral, rat	20000 ppm/10 hrs, rat, inhalation
TRIS-2,4,6- (DIMETHYLAMINOMETHYL) PHENOL	90-72-2	2169 mg/kg oral	Not Available

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MICROCRYSTALLINE SILICA	14808-60-7	Not Available	Not Available
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12. Ecological Information

ECOLOGICAL INFORMATION: No information available.

13. Disposal Information

DISPOSAL INFORMATION: Dispose of in accordance with local regulations.

14. Transport Information

DOT Proper Shipping Name:PaintPacking Group:IIIDOT Technical Name:N/AHazard Subclass:N/ADOT Hazard Class:3Resp. Guide Page:128

DOT UN/NA Number: UN 1263

Additional Notes: This product is considered a Marine Pollutant when transported by vessel.

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>	CAS-No
META-XYLENE	108-38-3
PARA-XYLENE	106-42-3
ETHYL BENZENE	100-41-4
ORTHO-XYLENE	95-47-6

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.

Chemical NameCAS-No.IRON OXIDE1332-37-2

Pennsylvania Right-To-Know:

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

<u>Chemical Name</u> CAS-No.

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IRON OXIDE 1332-37-2

CALIFORNIA PROPOSITION 65:

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

 Chemical Name
 CAS-No.

 ETHYL BENZENE
 100-41-4

 MICROCRYSTALLINE SILICA
 14808-60-7

 METHYL ISOBUTYL KETONE
 108-10-1

 BENZENE
 71-43-2

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

 Chemical Name
 CAS-No.

 TOLUENE
 108-88-3

 METHYL ALCOHOL
 67-56-1

 BENZENE
 71-43-2

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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