

Product Name: PBI Dope

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	PBI Dope	COMPANY NAME:	PBI Performance Products, Inc.
PRODUCT CODE:	M55010		9800-D Southern Pine Blvd.
MSDS NUMBER:	M55010		Charlotte, NC 28273
DATE:	3/1/2006		USA

For 24-hour emergency assistance, call the 3E Company at 1-877-737-4046. Please provide the technician with the following product tracking code: 9521

NON-EMERGENCIES	MSDS Information	(704) 554-3378
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2. COMPOSITION/INFORMATION AND INGREDIENTS

COMPONENT	CAS NUMBER	PERCENT
Polybenzimidazole	25928-81-8	<30
Dimethylacetamide	127-19-5	<95
Lithium Chloride	7447-41-8	<3

3. HAZARDS IDENTIFICATION

PRODUCT DESCRIPTION: Dark brown, viscous material with a strong odor.

EXPOSURE GUIDELINES:

Dimethylacetamide

OSHA TWA 10PPM

ACGIH TWA 10PPM

*DMAC has a "SKIN" designation in both the OSHA and the ACGIH exposure limit listings, indicating that the material readily penetrates the skin. Controlling airborne exposures to such materials usually is not adequate to prevent overexposure; care must be taken to prevent skin contact.

EMERGENCY ACTIONS: In the event of a spill or leak, eliminate all sources of ignition and isolate the spill area, allowing only trained personnel in protective equipment to enter. Clean-up methods may include absorbent materials, vacuum truck, etc. Avoid runoff into storm sewers and ditches that lead to natural waterways.

FIRE/EXPLOSION RISK: Combustible liquid. DMAC vapors are heavier than air and may flow along surfaces to a source of ignition and flash back. Temperatures above 662°F can cause the DMAC to decompose, releasing diethylamine and acetic acid, both of which are combustible. Temperatures above 800°F can cause the polymer to decompose, releasing carbon monoxide, carbon dioxide, nitrogen oxides and other toxic gases.

ENVIRONMENTAL HAZARDS: Not Determined

POTENTIAL HEALTH EFFECTS: Contact with the liquid may produce skin and eye irritation. Inhalation of dimethylacetamide vapor may produce headache, weakness, dizziness and nausea. Repeated or excessive overexposure may cause liver damage, jaundice, abdominal pain, vomiting and abnormal kidney function. Animal studies show that exposure to high doses of DMAC may be embryotoxic and may adversely affect male reproductive capacity.

ROUTES OF EXPOSURE: Skin absorption of DMAC liquid and inhalation of the vapor.

IMMEDIATE EFFECTS: Irritation, nausea, headache, weakness, dizziness and nausea.

Product Name: PBI Dope

4. FIRST AID MEASURES:

Eyes: Flush with plenty of water for at least 15 minutes. Seek medical attention if irritation is severe. **Skin:** Remove contaminated clothing. Flush skin with water for at least 15 minutes. Contact physician. Discard contaminated clothing.

Inhalation: Remove to fresh air. If breathing has stopped, give artificial respiration and call a physician.

Ingestion: If conscious, give water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Obtain emergency medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: DMAc is a combustible liquid with a flashpoint of 145 degrees F.

HAZARDOUS PRODUCTS OF COMBUSTION: Decomposition products include carbon monoxide, oxides of nitrogen and other toxic gases.

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, alcohol foam.

FIRE FIGHTING INSTRUCTIONS: Firefighters should protect themselves from decomposition products.

6. ACCIDENTAL RELEASE MEASURES

CLEAN-UP PROCEDURES: Collect released material for reuse or disposal. Cleanup personnel should wear protective clothing, gloves, and respiratory protection.

7. HANDLING and STORAGE

HANDLING: Personal protective equipment should always be used with PBI dope. Personal hygiene such as washing the hands and face immediately after working with material is also recommended. Use DMAC-resistant gloves whenever hand contact with the dope is anticipated. Face shields along with aprons and boots should be considered where the potential for liquid splash is significant.

STORAGE: Keep in a well-ventilated area, away from heat, sparks and flame. Avoid prolonged exposure to sun. Keep tightly closed to contain solvent vapors. Do not store near halogenated compounds such as carbon tetrachloride or benzene hexachloride. Product can also react to strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Proper engineering controls such as local ventilation is recommended where concentrations of solvent are expected to exceed exposure limit.

PROTECTIVE EQUIPMENT: Safety glasses with sideshields or chemical goggles is advisable when working with PBI Dope. DMAC can rapidly penetrate the skin, leading to an overexposure. Use DMAC-resistant gloves whenever hand contact with the dope is anticipated. Personnel should wear protective clothing, gloves, and respiratory protection when appropriate.

9. PHYSICAL and CHEMICAL PROPERTIES

PBI dope is dark brown in color, has a fishy odor and has a flash point of 145°F. Vapor is heavier than air.

Product Name: PBI Dope

10. STABILITY and REACTIVITY: PBI dope is stable. However DMAc may react with strong oxidizing agents. Violent exothermic reactions can occur between DMAc and highly halogenated compounds such as carbon tetrachloride or benzene hexachloride, especially in the presence of iron.

CONDITIONS TO AVOID: Sources of ignition. DMAc is incompatible with strong oxidizing agents or halogenated compounds.

11. TOXICOLOGICAL INFORMATION: No data are available for this mixture tested as a whole.

12. ECOLOGICAL INFORMATION: : Not Determined

13. DISPOSAL CONSIDERATIONS: Dispose of PBI Dope in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION: Follow all DOT regulations

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