

## 1. Product and Company Identification

Effective Date: 01-12-2011

Revision: 03

### Nansulate EPX-4 Part B

Principal Use: Epoxy hardener (Part B)

### Industrial Nanotech, Inc.

1925 Trade Center Way, Suite 1  
Naples, FL 34109

US & Canada: 1-800-767-3998

International: 1-239-254-0346

US & Canada Fax: 1-239-254-1381

International Fax: 1-239-254-1381

Only in the event of a transportation emergency involving a chemical spill, fire, etc., call  
CHEMTREC 1-800-424-9300.

## 2. Composition/Information on Ingredients

|                      |     | <u>OSHA PEL</u> |
|----------------------|-----|-----------------|
| Polyamines           | --- | Not listed      |
| Insulating materials | --- | Not listed      |
| Water                | --- | Not listed      |

Ingredients not precisely identified are proprietary or non hazardous.

## 3. Hazards Identification

### Emergency Overview

|                          |  |
|--------------------------|--|
| <u>Appearance:</u>       | Bluish or yellow colored thick liquid  |
| <u>Physical Hazards:</u> | Corrosive  |
| <u>Health Hazards:</u>   | Danger! Corrosive. Will cause severe eye and skin irritation.<br>Can cause irreversible damage to biological tissues. May<br>cause skin and respiratory sensitization. |

\* Hazard summary defined by OSHA Hazard Comm. Std., 29 CFR 1910.1200.

### Potential Health Effects:

|                         |  |
|-------------------------|--|
| <u>General:</u>         | No toxicity information is available on this specific preparation; this health assessment is based on the information that is available on its components. |
| <u>Ingestion:</u>       | Can cause irreversible damage to biological tissues.   |
| <u>Eye Contact:</u>     | Will cause severe eye irritation.  |
| <u>Skin Contact:</u>    | Will cause severe skin irritation.   |
| <u>Skin Absorption:</u> | May be absorbed through skin.  |

**Inhalation:** Harmful if inhaled. May cause respiratory sensitization.

## 4. First Aid Measures:

**First Aid - Eyes:** Flush eyes with plenty of water for several minutes. Get medical attention if irritation occurs.

**First Aid - Skin:** Wash affected area with plenty of water, and soap, if available, for several minutes. Get medical attention if irritation occurs.

**First Aid - Ingestion:** If swallowed, give at least 3-4 glasses of water, but do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person.

**First Aid - Inhalation:** Remove person from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

## 5. Fire Fighting Measures

**Flashpoint and Method:** >374 deg. F. (>190 deg. C.)

**Autoignition Temperature:** Not applicable

**Flammable Limits:** Not established

**Extinguishing Media:** Carbon dioxide, foam, dry chemical, water spray

**Protective Equipment:** Use self-contained breathing apparatus.

**Unusual Fire:** Decomposition and combustion products may be toxic.

**Other Information:** None

## 6. Accidental Release Measures

**Spill Measures:** Wear appropriate protective clothing. Avoid all personal contact. Take up with absorbent material. Shovel into closable container. Flush contaminated area with water.

## 7. Handling and Storage

**Handling:** Do not get on skin, in eyes, or on clothing. Do not breathe mist or vapor. Wear chemical goggles and impervious gloves. Wash thoroughly after handling.

**Storage:** Keep container closed when not in use. Store in a cool, dry area.

## 8. Exposure Controls/Personal Protection

**Exposure Guidelines:** No ACGIH TLV or OSHA TLV assigned to this mixture. Use good industrial hygiene practices to minimize exposure.

**Ventilation:** Provide local exhaust if TLV is expected to be exceeded.

**Respiratory Protection:** Use NIOSH approved respirator suitable for organic vapors, if required.

**Protective Clothing:** Wear impervious gloves.

**Eye Protection Text:** Wear chemical goggles.

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**Other Protective Equipment**Eyewash station and safety shower in work area.

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## 9. Chemical and Physical Properties

|   |   |
|---|---|
| <b><u>Appearance:</u></b>                   | Bluish colored thick liquid                           |
| <b><u>Boiling Point:</u></b>                | >100 deg. (>212 deg. F.)                              |
| <b><u>Melting Point:</u></b>                | Not determined  |
| <b><u>Vapor Pressure:</u></b>               | Not determined  |
| <b><u>Vapor Density:</u></b>                | Not determined  |
| <b><u>Solubility in water:</u></b>          | Miscible  |
| <b><u>pH-value:</u></b>                     | Not determined  |
| <b><u>Specific Gravity (Water = 1):</u></b> | 7.8 lb/gal  |
| <b><u>VOC Content:</u></b>                  | 7 g/L (calculated), Mixed system: 14 g/L (calculated) |
| <b><u>Explosive Properties:</u></b>         | None  |

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## 10. Stability and Reactivity

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| <b><u>Stability:</u></b>                             | Stable under normal conditions.                              |
| <b><u>Incompatibility - Conditions to Avoid:</u></b> | Strong oxidizers and acids.                                  |
| <b><u>Haz. Decomposition Products:</u></b>           | Carbon monoxide, carbon dioxide, aldehydes, nitrogen oxides. |
| <b><u>Haz Polymerization:</u></b>                    | Will not occur.  |

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## 11. Toxicological Information

|  |   |
|--|---|
| <b><u>Possible Human Health Effects:</u></b> |   |
| <b><u>Inhalation:</u></b>                    | Harmful if inhaled. May cause respiratory sensitization.        |
| <b><u>Skin Contact:</u></b>                  | Will cause severe skin irritation.                              |
| <b><u>Eye Contact:</u></b>                   | Will cause severe eye irritation.                               |
| <b><u>Ingestion:</u></b>                     | Corrosive. Can cause irreversible damage to biological tissues. |
| <b><u>Other Effects Of Overexposure:</u></b> | May cause skin and respiratory sensitization.                   |
| <b><u>Note to Physician:</u></b>             | Not applicable.   |

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## 12. Ecological Information

Do not release this product into the environment.

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## 13. Disposal Consideration

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|-------------------------------|--|
| <b><u>Disposal method</u></b> | Discarded product is not a hazardous waste under RCRA, 40 CFR 261. |
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Container disposal

Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all liquid residue and puncture or otherwise destroy empty container before disposal.

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## 14. Transport Information

Transport Hazard Description

DOT Hazard Description

Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s. (Metaxylenediamine)  
Hazard Class: 8  
Identification Number: UN3267  
Packing Group: III  
Hazardous Substance (RQ): None  
Placard/Label: CORROSIVE

IATA HAZARD DESCRIPTION:

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Packing Group: III  
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## 15. Regulatory Information

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710:

All ingredients are in compliance with TSCA Inventory requirements.

CERCLA and SARA Regulations (40 CFR 355, 370, 372):

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

California Proposition 65:

None

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## 16. Other Information

We believe that the information contained in this data sheet is an accurate description of the typical characteristics and/or uses of the product or products, but it is the customer's responsibility to thoroughly test the product in each specific application to determine its performance, efficacy and safety for each end-use product, device or other application.

HMIS and NFPA Ratings

Hazard:

HMIS Ratings:

NFPA Ratings:

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|                      |   |   |
|----------------------|---|---|
| <u>Health:</u>       | 3 | 3 |
| <u>Flammability:</u> | 1 | 1 |
| <u>Reactivity:</u>   | 0 | 0 |

HMIS and NFPA Hazard Rating Codes:

0 - Least    1 - Slight    2 - Moderate    3 - High    4 - Severe