



SAFETY DATA SHEET

EPO-TEK 353ND-T Black PMF Syringe

1. Identification

Product identifier

Product name EPO-TEK 353ND-T Black PMF Syringe
Product number 353NDT BLACK

Recommended use of the chemical and restrictions on use

Application Adhesive.

Details of the supplier of the safety data sheet

Supplier Epoxy Technology, Inc.
14 Fortune Drive
Billerica, MA 01821
USA
(978) 667-3805
(978) 663-9782
www.epotek.com, SDS@epotek.com

Emergency telephone number

Emergency telephone +1 (800) 255-3924, +1 (813) 248-0585

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified
Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 1B - H360 STOT SE 1 - H370
Environmental hazards Aquatic Chronic 2 - H411

Label elements

Pictogram



Signal word Danger

Hazard statements H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H360 May damage fertility or the unborn child.
H370 Causes damage to organs .
H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P302+P352 If on skin: Wash with plenty of water.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 If exposed or concerned: Get medical advice/ attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains Epoxy Phenol Novolac, Substituted Imidazole, Polar Activator, Imidazole

Other hazards

Hazards not otherwise classified (HNOC) Contains epoxy constituents. May produce an allergic reaction.

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| 3. Composition/information on ingredients |
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Mixtures

| | |
|------------------------------|----------------|
| Epoxy Phenol Novolac | 60-100% |
| CAS number: 9003-36-5 | |
| Classification | |
| Skin Irrit. 2 - H315 | |
| Eye Irrit. 2 - H319 | |
| Skin Sens. 1 - H317 | |
| Aquatic Chronic 2 - H411 | |
| Substituted Imidazole | 5-10% |
| CAS number: Proprietary | |
| Classification | |
| Acute Tox. 4 - H302 | |
| Skin Irrit. 2 - H315 | |
| Eye Dam. 1 - H318 | |
| Polar Activator | 1-5% |
| CAS number: Proprietary | |
| Classification | |
| Flam. Liq. 2 - H225 | |
| Acute Tox. 3 - H301 | |
| Acute Tox. 3 - H311 | |
| Acute Tox. 3 - H331 | |
| STOT SE 1 - H370 | |

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| Imidazole | 1-5% |
| CAS number: 288-32-4 | |
| Classification | |
| Acute Tox. 4 - H302 | |
| Skin Corr. 1B - H314 | |
| Eye Dam. 1 - H318 | |
| Repr. 1B - H360 | |

The Full Text for all Hazard Statements are Displayed in Section 16.

4. First-aid measures

Description of first aid measures

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| Inhalation | Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues. |
| Ingestion | Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues. |
| Skin Contact | Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues. |
| Eye contact | Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. |

Most important symptoms and effects, both acute and delayed

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| General information | May damage fertility or the unborn child. Causes damage to organs. |
| Inhalation | Inhalation of dust during cutting, grinding or sanding operations involving this product may cause irritation of the respiratory tract. Gas or vapor in high concentrations may irritate the respiratory system. |
| Ingestion | May cause discomfort if swallowed. |
| Skin contact | Causes skin irritation. May cause sensitisation by skin contact. |
| Eye contact | Causes serious eye damage. |

Indication of immediate medical attention and special treatment needed

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| Notes for the doctor | Treat symptomatically. |
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5. Fire-fighting measures

Extinguishing media

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| Suitable extinguishing media | Dry chemicals. Foam. Carbon dioxide (CO2). |
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Special hazards arising from the substance or mixture

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| Hazardous combustion products | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |
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Advice for firefighters

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| Protective actions during firefighting | Avoid breathing fire gases or vapors. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. |
| Special protective equipment for firefighters | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. |

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering drains, sewers or watercourses.

Reference to other sections For personal protection, see Section 8.

7. Handling and storage

Precautions for safe handling

Usage precautions Handle all packages and containers carefully to minimize spills. Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet.

Advice on general occupational hygiene Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Do not eat, drink or smoke when using this product. Provide eyewash station. Wash promptly with soap and water if skin becomes contaminated. Wash after use and before eating, smoking and using the toilet. Wash contaminated clothing before reuse. Use appropriate skin cream to prevent drying of skin.

Conditions for safe storage, including any incompatibilities

Storage precautions Store at -40 degrees C. Keep container tightly sealed when not in use.

Storage class Chemical storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Polar Activator

Long-term exposure limit (8-hour TWA): ACGIH 200 ppm

Short-term exposure limit (15-minute): ACGIH 250 ppm

ACGIH = American Conference of Governmental Industrial Hygienists.

Exposure controls

Protective equipment



Appropriate engineering controls Provide adequate general and local exhaust ventilation.

Eye/face protection Wear tight-fitting, chemical splash goggles or face shield.

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| | |
|---------------------------------------|--|
| Hand protection | Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. |
| Other skin and body protection | Wear appropriate clothing to prevent any possibility of skin contact. |
| Hygiene measures | Provide eyewash station. Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. |
| Respiratory protection | If ventilation is inadequate, suitable respiratory protection must be worn. |

9. Physical and Chemical Properties

Information on basic physical and chemical properties

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|--------------------------|----------------------------|
| Appearance | Liquid. |
| Color | Black. |
| Odor | Mild. |
| Flash point | > 93°C |
| Evaporation rate | <BuAc |
| Vapor density | >1 |
| Solubility(ies) | Slightly soluble in water. |
| Other information | None. |

10. Stability and reactivity

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| Reactivity | The following materials may react with the product: Strong oxidizing agents. Strong reducing agents. |
| Stability | Stable at normal ambient temperatures and when used as recommended. |
| Possibility of hazardous reactions | May polymerize. |
| Conditions to avoid | Avoid excessive heat for prolonged periods of time. |
| Materials to avoid | Strong oxidizing agents. Strong reducing agents. |
| Hazardous decomposition products | Fire creates: Carbon monoxide (CO). Carbon dioxide (CO ₂). |

11. Toxicological information

Information on toxicological effects

| | |
|-------------------|--|
| Inhalation | Inhalation of dust during cutting, grinding or sanding operations involving this product may cause irritation of the respiratory tract. Gas or vapor in high concentrations may irritate the respiratory system. |
|-------------------|--|

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|---------------------|--|
| Ingestion | May cause discomfort if swallowed. |
| Skin Contact | May cause sensitisation by skin contact. Irritating to skin. |
| Eye contact | Causes serious eye damage. |

12. Ecological Information

| | |
|--------------------------------------|---|
| Ecotoxicity | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| Toxicity | |
| Acute toxicity - fish | Not available. |
| Persistence and degradability | |
| Persistence and degradability | No data available. |
| Bioaccumulative potential | |
| Bio-Accumulative Potential | No data available on bioaccumulation. |
| Mobility in soil | |
| Mobility | The product has poor water-solubility. |
| Other adverse effects | |
| Other adverse effects | Not known. |

13. Disposal considerations

Waste treatment methods

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| Disposal methods | Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. |
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14. Transport information

UN Number

| | |
|----------------------|--------|
| UN No. (TDG) | 3082 |
| UN No. (IMDG) | 3082 |
| UN No. (ICAO) | 3082 |
| UN No. (DOT) | UN3082 |

UN proper shipping name

| | |
|------------------------------------|---|
| Proper shipping name (TDG) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy Phenol Novolac) |
| Proper shipping name (IMDG) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy Phenol Novolac) |

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Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy Phenol Novolac)

Proper shipping name (DOT) ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (CONTAINS Epoxy Phenol Novolac)

Transport hazard class(es)

DOT hazard class 9

DOT hazard label 9

TDG class 9

TDG label(s) 9

IMDG Class 9

ICAO class/division 9

Transport labels



DOT transport labels



Packing group

TDG Packing Group III

IMDG packing group III

ICAO packing group III

DOT packing group III

Environmental hazards

Environmentally Hazardous Substance



Special precautions for user

EmS F-A, S-F

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

Regulatory References Proprietary information protected pursuant to WTO's Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS), Section 7, Art. 39.

US Federal Regulations

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SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are required to be listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)

The following ingredients are listed or exempt:

Polar Activator

5,000 lbs (2270 Kg)

SARA Extremely Hazardous Substances EPCRA Reportable Quantities

None of the ingredients are required to be listed.

SARA 313 Emission Reporting

The following ingredients are listed or exempt:

Polar Activator

CAA Accidental Release Prevention

None of the ingredients are required to be listed.

OSHA Highly Hazardous Chemicals

None of the ingredients are required to be listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

WARNING: This product contains a substance known to the State of California to cause cancer and/or reproductive harm.

California Air Toxics "Hot Spots" (A-I)

The following ingredients are listed or exempt:

Polar Activator

California Air Toxics "Hot Spots" (A-II)

None of the ingredients are required to be listed.

Massachusetts "Right To Know" List

The following ingredients are listed or exempt:

Polar Activator

Rhode Island "Right To Know" List

The following ingredients are listed or exempt:

Polar Activator

Minnesota "Right To Know" List

The following ingredients are listed or exempt:

Polar Activator

New Jersey "Right To Know" List

The following ingredients are listed or exempt:

Polar Activator

Pennsylvania "Right To Know" List

The following ingredients are listed or exempt:

Polar Activator

Inventories

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EU - EINECS/ELINCS

Some of the ingredients are listed or exempt.

Canada - DSL/NDSL

All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification

None of the ingredients are listed or exempt.

Australia - AICS

All the ingredients are listed or exempt.

Japan - MITI

Some of the ingredients are listed or exempt.

Korea - KECI

All the ingredients are listed or exempt.

China - IECSC

All the ingredients are listed or exempt.

Philippines - PICCS

All the ingredients are listed or exempt.

16. Other information

| | |
|----------------------------------|---|
| Revision date | 8/5/2016 |
| Hazard statements in full | H225 Highly flammable liquid and vapor. H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H360 May damage fertility or the unborn child. H370 Causes damage to organs. H411 Toxic to aquatic life with long lasting effects. |

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