



## SAFETY DATA SHEET

### EPO-TEK® HYB-353ND PMF Syringe

#### 1. Identification

##### Product identifier

**Product name** EPO-TEK® HYB-353ND PMF Syringe

**Product number** HYB-353ND

##### Recommended use of the chemical and restrictions on use

**Application** Adhesive.

**Uses advised against** Use only for intended applications.

##### 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** ChemTel: +1 (800) 255-3924, +1 (813) 248-0585

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

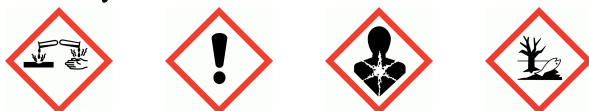
**Physical hazards** Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Repr. 1B - H360Df

**Environmental hazards** Aquatic Chronic 2 - H411

##### Label elements

##### Hazard symbols



**Signal word**

Danger

##### Hazard statements

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H360Df May damage the unborn child. Suspected of damaging fertility.  
H411 Toxic to aquatic life with long lasting effects.

## EPO-TEK® HYB-353ND PMF Syringe

**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, Specialty Acrylate Blend, Substituted Imidazole Blend, Imidazole, Photoinitiator

### Other hazards

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

### 3. Composition/information on ingredients

#### Mixtures

<b>Epoxy Phenol Novolac</b>	<b>60-100%</b>
CAS number: 9003-36-5	
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Irrit. 2A - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
<b>Specialty Acrylate Blend</b>	<b>10-30%</b>
CAS number: Proprietary	
<b>Classification</b>	
Skin Sens. 1 - H317	
<b>Substituted Imidazole Blend</b>	<b>5-10%</b>
CAS number: Proprietary	
<b>Classification</b>	
Acute Tox. 4 - H302	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
<b>Imidazole</b>	<b>1-5%</b>
CAS number: 288-32-4	
<b>Classification</b>	
Acute Tox. 4 - H302	
Skin Corr. 1C - H314	
Eye Dam. 1 - H318	
Repr. 1B - H360D	

## EPO-TEK® HYB-353ND PMF Syringe

<b>Photoinitiator</b>	<b>&lt;1%</b>
CAS number: Proprietary	
<b>Classification</b>	
Repr. 2 - H361f	

The full text for all hazard statements is displayed in Section 16.

### 4. First-aid measures

#### Description of first aid measures

<b>Inhalation</b>	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
<b>Ingestion</b>	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.
<b>Skin Contact</b>	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	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

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

#### Indication of immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	Treat symptomatically.
-----------------------------	------------------------

### 5. Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media** Dry chemicals. Foam. Carbon dioxide (CO<sub>2</sub>).

#### Special hazards arising from the substance or mixture

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

#### Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapors. Use water to keep fire exposed containers cool and disperse vapors.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

## EPO-TEK® HYB-353ND PMF Syringe

<b>Personal precautions</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Keep unnecessary and unprotected personnel away from the spillage. Avoid contact with skin and eyes.
<b><u>Environmental precautions</u></b>	
<b>Environmental precautions</b>	Avoid discharge to the aquatic environment.
<b><u>Methods and material for containment and cleaning up</u></b>	
<b>Methods for cleaning up</b>	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.
<b>Reference to other sections</b>	For personal protection, see Section 8.

### 7. Handling and storage

#### **Precautions for safe handling**

<b>Usage precautions</b>	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.
<b>Advice on general occupational hygiene</b>	Provide eyewash station. Do not eat, drink or smoke when using this product. 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**

<b>Storage precautions</b>	Store at -40°C. Keep container tightly sealed when not in use.
<b>Storage class</b>	Chemical storage.
<b><u>Specific end uses(s)</u></b>	
<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.

### 8. Exposure controls/Personal protection

**Ingredient comments** No exposure limits known for ingredient(s).

#### **Exposure controls**

##### **Protective equipment**



**Appropriate engineering controls** Provide adequate general and local exhaust ventilation. Avoid inhalation of vapors.

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

**Hand protection** It is recommended that chemical-resistant, impervious gloves are worn.

**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 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.

## EPO-TEK® HYB-353ND PMF Syringe

**Respiratory protection** If ventilation is inadequate, suitable respiratory protection must be worn.

### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Liquid.
<b>Color</b>	Colorless to pale yellow.
<b>Odor</b>	Mild.
<b>Odor threshold</b>	No specific test data are available.
<b>pH</b>	No specific test data are available.
<b>Melting point</b>	No specific test data are available.
<b>Initial boiling point and range</b>	No specific test data are available.
<b>Flash point</b>	> 93°C
<b>Evaporation rate</b>	< BuAc
<b>Evaporation factor</b>	No specific test data are available.
<b>Flammability (solid, gas)</b>	No specific test data are available.
<b>Upper/lower flammability or explosive limits</b>	No specific test data are available.
<b>Vapor pressure</b>	No specific test data are available.
<b>Vapor density</b>	> 1
<b>Relative density</b>	No specific test data are available.
<b>Bulk density</b>	No specific test data are available.
<b>Solubility(ies)</b>	No specific test data are available.
<b>Partition coefficient</b>	No specific test data are available.
<b>Auto-ignition temperature</b>	No specific test data are available.
<b>Decomposition Temperature</b>	No specific test data are available.
<b>Viscosity</b>	No specific test data are available.
<b>Other information</b>	None.

### 10. Stability and reactivity

<b>Reactivity</b>	The following materials may react with the product: Strong oxidizing agents. Strong reducing agents.
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
<b>Possibility of hazardous reactions</b>	May polymerize.
<b>Conditions to avoid</b>	Avoid excessive heat for prolonged periods of time.
<b>Materials to avoid</b>	Strong oxidizing agents. Strong reducing agents.

## EPO-TEK® HYB-353ND PMF Syringe

**Hazardous decomposition products** Thermal decomposition or combustion products may include the following substances:  
Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### 11. Toxicological information

#### Information on toxicological effects

##### Acute toxicity - oral

ATE oral (mg/kg) 5,764.05

##### **General information**

Possible risk of adverse reproductive effects. May damage fertility or the unborn child.

##### **Inhalation**

May cause respiratory irritation. Inhalation of dust during cutting, grinding or sanding operations involving this product may cause irritation of the respiratory tract.

##### **Ingestion**

May cause discomfort if swallowed.

##### **Skin Contact**

Causes skin irritation. May cause an allergic skin reaction. May cause sensitisation by skin contact.

##### **Eye contact**

Causes serious eye damage.

### 12. Ecological information

**Ecotoxicity** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Acute aquatic toxicity

**Acute toxicity - fish** Not available.

#### Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

#### Bioaccumulative potential

**Bio-Accumulative Potential** No data available on bioaccumulation.

#### Partition coefficient

No specific test data are available.

#### Mobility in soil

**Mobility** No data available.

#### Other adverse effects

**Other adverse effects** Not known.

### 13. Disposal considerations

#### Waste treatment methods

##### **General information**

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### 14. Transport information

#### UN Number

UN No. (TDG) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (DOT) UN3082

## EPO-TEK® HYB-353ND PMF Syringe

### UN proper shipping name

<b>Proper shipping name (TDG)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy Phenol Novolac)
<b>Proper shipping name (IMDG)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy Phenol Novolac)
<b>Proper shipping name (ICAO)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy Phenol Novolac)
<b>Proper shipping name (DOT)</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy Phenol Novolac)

### Transport hazard class(es)

<b>DOT hazard class</b>	9
<b>DOT hazard label</b>	9
<b>TDG class</b>	9
<b>TDG label(s)</b>	9
<b>IMDG Class</b>	9
<b>ICAO class/division</b>	9

### Transport labels



### DOT transport labels



### Packing group

<b>TDG Packing Group</b>	III
<b>IMDG packing group</b>	III
<b>ICAO packing group</b>	III
<b>DOT packing group</b>	III

### Environmental hazards

#### Environmentally Hazardous Substance



### Special precautions for user

<b>EmS</b>	F-A, S-F
<b>DOT reportable quantity</b>	RQ: Acrylic acid (38596105.267 lbs)

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

## EPO-TEK® HYB-353ND PMF Syringe

### 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

**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)**

None of the ingredients are required to be listed.

**SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are required to be listed.

**SARA 313 Emission Reporting**

None of the ingredients are required to be listed.

**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**

None of the ingredients are required to be listed.

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

None of the ingredients are required to be listed.

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

None of the ingredients are required to be listed.

**Massachusetts "Right To Know" List**

None of the ingredients are required to be listed.

**Rhode Island "Right To Know" List**

None of the ingredients are required to be listed.

**Minnesota "Right To Know" List**

None of the ingredients are required to be listed.

**New Jersey "Right To Know" List**

None of the ingredients are required to be listed.

**Pennsylvania "Right To Know" List**

None of the ingredients are required to be listed.

#### Inventories

**EU - EINECS/ELINCS**

Some of the ingredients are listed or exempt.

**Canada - DSL/NDSL**

All the ingredients are listed or exempt.



## EPO-TEK® HYB-353ND PMF Syringe

### 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 - ENCS

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

<b>Revision date</b>	4/28/2020
<b>Revision</b>	2
<b>Supersedes date</b>	12/15/2016
<b>Hazard statements in full</b>	<p>H302 Harmful if swallowed.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H360D May damage the unborn child.</p> <p>H360Df May damage the unborn child. Suspected of damaging fertility.</p> <p>H361f Suspected of damaging fertility.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Epoxy Technology, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Epoxy Technology, Inc. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.