

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : EPO-TEK® HYB-353ND-HV PMF SYRINGE

#### 1.2. Other means of identification

No additional information available

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

Use of the substance/mixture : Adhesives  
Recommended use : Adhesives  
Restrictions on use : Not to be used for any purpose other than the one the product was designed for

#### 1.4. Supplier's details

Epoxy Technology, Inc.  
14 Fortune Drive  
Billerica, MA 01821  
USA  
T 978-667-3805 - F 978-663-9782  
[www.epotek.com](http://www.epotek.com)

#### 1.5. Emergency phone number

Emergency number : VelocityEHS: +1 (800) 255-3924, +1 (813) 248-0585

### SECTION 2 Hazard Identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

|                                                                   |      |                                                       |
|-------------------------------------------------------------------|------|-------------------------------------------------------|
| Skin corrosion/irritation, Category 2                             | H315 | Causes skin irritation.                               |
| Serious eye damage/eye irritation, Category 1                     | H318 | Causes serious eye damage.                            |
| Skin sensitization, Category 1                                    | H317 | May cause an allergic skin reaction.                  |
| Carcinogenicity, Category 2                                       | H351 | Suspected of causing cancer.                          |
| Reproductive toxicity, Category 1B                                | H360 | May damage fertility or the unborn child.             |
| Hazardous to the aquatic environment — Chronic Hazard, Category 1 | H410 | Very toxic to aquatic life with long lasting effects. |

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Danger

Hazard statements (GHS US)

: H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H351 - Suspected of causing cancer.  
H360 - May damage fertility or the unborn child  
H410 - Very toxic to aquatic life with long lasting effects

# EPO-TEK® HYB-353ND-HV PMF SYRINGE

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautionary statements (GHS US) | : P201 - Obtain special instructions before use.<br>P202 - Do not handle until all safety precautions have been read and understood.<br>P261 - Avoid breathing dust, fume, gas, mist, vapors, spray.<br>P264 - Wash hands, forearms and face thoroughly after handling.<br>P272 - Contaminated work clothing must not be allowed out of the workplace.<br>P273 - Avoid release to the environment.<br>P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.<br>P302+P352 - If on skin: Wash with plenty of water.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P308+P313 - If exposed or concerned: Get medical advice/attention.<br>P310 - Immediately call a poison center or doctor.<br>P321 - Specific treatment (see supplemental first aid instruction on this label).<br>P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.<br>P362+P364 - Take off contaminated clothing and wash it before reuse.<br>P391 - Collect spillage.<br>P405 - Store locked up.<br>P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations. |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

### 2.4. Hazards not otherwise classified

Other hazards which do not result in classification : Harmful dust may be released during cutting, milling or grinding process.

### 2.5. Unknown acute toxicity

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                       | Product identifier  | %        | GHS US classification                                                                                                                  |
|----------------------------|---------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------|
| Epoxy phenol novolac resin | CAS-No.: 9003-36-5  | 30 - 60* | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411                                                                   |
| Epoxy acrylate             | CAS-No.: 55818-57-0 | 30 - 60* | Skin Sens. 1, H317<br>Aquatic Chronic 1, H410                                                                                          |
| Epoxy acrylate             | CAS-No.: 42978-66-5 | 7 - 13*  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>STOT SE 3, H335<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411 |
| Substituted imidazole      | CAS-No.: 931-36-2   | 1 - 7*   | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1B, H317                                            |

# EPO-TEK® HYB-353ND-HV PMF SYRINGE

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

| Name                  | Product identifier  | %        | GHS US classification                                                                                                |
|-----------------------|---------------------|----------|----------------------------------------------------------------------------------------------------------------------|
| Imidazole             | CAS-No.: 288-32-4   | 1 - 5*   | Acute Tox. 4 (Oral), H302<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Repr. 1B, H360                               |
| Photoinitiator        | CAS-No.: 75980-60-8 | 0.1 - 1* | Repr. 2, H361<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411                                                    |
| Substituted imidazole | CAS-No.: 822-36-6   | 0.1 - 1* | Acute Tox. 4 (Oral), H302<br>Acute Tox. 3 (Dermal), H311<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Carc. 2, H351 |

Comments : Components not listed are either non-hazardous or are below reportable limits.  
Full text of hazard classes and H-statements : see section 16

## SECTION 4 First aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.  
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.  
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.  
Personal protection for first-aid responders. : First aid workers will be equipped with suitable personal protective equipment.

### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : None under normal conditions.  
Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.  
Symptoms/effects after eye contact : Serious damage to eyes.  
Symptoms/effects after ingestion : None under normal conditions.  
Chronic symptoms : May damage fertility or the unborn child.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard : No fire hazard.  
Explosion hazard : No direct explosion hazard.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

# EPO-TEK® HYB-353ND-HV PMF SYRINGE

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

### 5.3. Special protective equipment and precautions for fire-fighters

- |                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

## SECTION 6 Accidental release measures

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

- |                  |                                                                                                                                         |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage. |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------|

#### For non-emergency personnel

- |                      |                                                                                                                                        |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Wear recommended personal protective equipment.                                                                                      |
| Emergency procedures | : Only qualified personnel equipped with suitable protective equipment may intervene. Avoid breathing dust/fume/gas/mist/vapors/spray. |

#### For emergency responders

- |                           |                                                                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment      | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures      | : Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                               |
| Environmental precautions | : Avoid release to the environment. Notify authorities if product enters sewers or public waters.                                                           |

### 6.2. Methods and materials for containment and cleaning up

- |                         |                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk. |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.                                               |
| Other information       | : Dispose of materials or solid residues at an authorized site.                                                                                             |

For further information refer to section 13.

## SECTION 7 Handling and storage

### 7.1. Precautions for safe handling

- |                                   |                                                                                                                                                                                                                                                                                         |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling     | : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. |
| Hygiene measures                  | : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.     |
| Additional hazards when processed | : Not expected to present a significant hazard under anticipated conditions of normal use.                                                                                                                                                                                              |

### 7.2. Conditions for safe storage, including incompatibilities

- |                     |                                                                             |
|---------------------|-----------------------------------------------------------------------------|
| Technical measures  | : Keep in a cool, well-ventilated place away from heat.                     |
| Storage conditions  | : Keep stored at -40°C.                                                     |
| Packaging materials | : Always store product in container of same material as original container. |

# EPO-TEK® HYB-353ND-HV PMF SYRINGE

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures, such as personal protective equipment

##### Personal protective equipment:

Wear recommended personal protective equipment.

|                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hand protection:</b>                                                                                                                                                                                                                                                                                                                                                                                                |
| Wear suitable gloves resistant to chemical penetration. Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Refer to manufacturer's information. Gloves must be replaced after each use and whenever signs of wear or perforation appear |
| <b>Eye protection:</b>                                                                                                                                                                                                                                                                                                                                                                                                 |
| Safety glasses                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Skin and body protection:</b>                                                                                                                                                                                                                                                                                                                                                                                       |
| Wear suitable protective clothing                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Respiratory protection:</b>                                                                                                                                                                                                                                                                                                                                                                                         |
| [In case of inadequate ventilation] wear respiratory protection.                                                                                                                                                                                                                                                                                                                                                       |

##### Personal protective equipment symbol(s):



### SECTION 9 Physical and chemical properties

#### 9.1. Basic physical and chemical properties

|                                                 |                            |
|-------------------------------------------------|----------------------------|
| Physical state                                  | : Liquid                   |
| Color                                           | : colorless to pale yellow |
| Odor                                            | : characteristic           |
| Odor threshold                                  | : No data available        |
| pH                                              | : No data available        |
| Melting point                                   | : Not applicable           |
| Freezing point                                  | : No data available        |
| Boiling point                                   | : No data available        |
| Flash point                                     | : No data available        |
| Flammability (solid, gas)                       | : Not applicable.          |
| Vapor pressure                                  | : No data available        |
| Relative vapor density at 20°C                  | : No data available        |
| Relative density                                | : No data available        |
| Solubility                                      | : No data available        |
| Partition coefficient n-octanol/water (Log Pow) | : No data available        |
| Auto-ignition temperature                       | : No data available        |
| Decomposition temperature                       | : No data available        |
| Viscosity, kinematic                            | : No data available        |

# EPO-TEK® HYB-353ND-HV PMF SYRINGE

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

Explosion limits : No data available  
Particle characteristics : No data available

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10 Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11 Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

| Substituted imidazole (822-36-6) |                                                                                                                                                        |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat                    | 350 mg/kg Source: IUCLID                                                                                                                               |
| LD50 oral                        | 173 mg/kg                                                                                                                                              |
| LD50 dermal rabbit               | 440 mg/kg Source: IUCLID                                                                                                                               |
| ATE US (oral)                    | 173 mg/kg body weight                                                                                                                                  |
| ATE US (dermal)                  | 440 mg/kg body weight                                                                                                                                  |
| Substituted imidazole (931-36-2) |                                                                                                                                                        |
| LD50 oral rat                    | 731 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)                                                            |
| LD50 dermal rabbit               | > 400 mg/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal)                                               |
| LC50 Inhalation - Rat            | > 0.03 mg/l (Equivalent or similar to OECD 403, 8 h, Rat, Male / female, Experimental value, (maximum achievable concentration), Inhalation (vapours)) |
| ATE US (oral)                    | 731 mg/kg body weight                                                                                                                                  |

# EPO-TEK® HYB-353ND-HV PMF SYRINGE

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

|                                                            |                                                                                                                                                  |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Imidazole (288-32-4)</b>                                |                                                                                                                                                  |
| LD50 oral rat                                              | 970 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Experimental value, Oral, 7 day(s))                                               |
| LD50 oral                                                  | 960 mg/kg                                                                                                                                        |
| ATE US (oral)                                              | 960 mg/kg body weight                                                                                                                            |
| <b>Photoinitiator (75980-60-8)</b>                         |                                                                                                                                                  |
| LD50 oral rat                                              | > 5000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))                                |
| LD50 dermal rat                                            | > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))                      |
| <b>Epoxy acrylate (55818-57-0)</b>                         |                                                                                                                                                  |
| LD50 oral rat                                              | > 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)                                                        |
| LD50 dermal rat                                            | > 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)                                                      |
| LC50 Inhalation - Rat                                      | > 4.9 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)                                                            |
| <b>Epoxy acrylate (42978-66-5)</b>                         |                                                                                                                                                  |
| LD50 oral rat                                              | > 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, 14 day(s), Rat, Female, Experimental value, Oral, 14 day(s)) |
| LD50 oral                                                  | 6800 mg/kg                                                                                                                                       |
| LD50 dermal rabbit                                         | > 2000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))                 |
| LD50 dermal                                                | 2500 mg/kg                                                                                                                                       |
| ATE US (oral)                                              | 6800 mg/kg body weight                                                                                                                           |
| ATE US (dermal)                                            | 2500 mg/kg body weight                                                                                                                           |
| Skin corrosion/irritation : Causes skin irritation.        |                                                                                                                                                  |
| <b>Epoxy phenol novolac resin (9003-36-5)</b>              |                                                                                                                                                  |
| pH                                                         | No data available in the literature                                                                                                              |
| <b>Substituted imidazole (822-36-6)</b>                    |                                                                                                                                                  |
| pH                                                         | 10.6 (10 %)                                                                                                                                      |
| <b>Substituted imidazole (931-36-2)</b>                    |                                                                                                                                                  |
| pH                                                         | 10.9 (21 %)                                                                                                                                      |
| <b>Imidazole (288-32-4)</b>                                |                                                                                                                                                  |
| pH                                                         | 10.5 (7 %)                                                                                                                                       |
| <b>Photoinitiator (75980-60-8)</b>                         |                                                                                                                                                  |
| pH                                                         | 6.4 – 6.9 (20 °C)                                                                                                                                |
| Serious eye damage/irritation : Causes serious eye damage. |                                                                                                                                                  |
| <b>Epoxy phenol novolac resin (9003-36-5)</b>              |                                                                                                                                                  |
| pH                                                         | No data available in the literature                                                                                                              |
| <b>Substituted imidazole (822-36-6)</b>                    |                                                                                                                                                  |
| pH                                                         | 10.6 (10 %)                                                                                                                                      |

# EPO-TEK® HYB-353ND-HV PMF SYRINGE

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

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|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Substituted imidazole (931-36-2)</b>       |                                                                                                                                                                                                                                                                                                                 |
| pH                                            | 10.9 (21 %)                                                                                                                                                                                                                                                                                                     |
| <b>Imidazole (288-32-4)</b>                   |                                                                                                                                                                                                                                                                                                                 |
| pH                                            | 10.5 (7 %)                                                                                                                                                                                                                                                                                                      |
| <b>Photoinitiator (75980-60-8)</b>            |                                                                                                                                                                                                                                                                                                                 |
| pH                                            | 6.4 – 6.9 (20 °C)                                                                                                                                                                                                                                                                                               |
| Respiratory or skin sensitization             | : May cause an allergic skin reaction.                                                                                                                                                                                                                                                                          |
| Germ cell mutagenicity                        | : Not classified                                                                                                                                                                                                                                                                                                |
| Carcinogenicity                               | : Suspected of causing cancer.                                                                                                                                                                                                                                                                                  |
| <b>Substituted imidazole (822-36-6)</b>       |                                                                                                                                                                                                                                                                                                                 |
| IARC group                                    | 2B - Possibly carcinogenic to humans                                                                                                                                                                                                                                                                            |
| Reproductive toxicity                         | : May damage fertility or the unborn child.                                                                                                                                                                                                                                                                     |
| STOT-single exposure                          | : Not classified                                                                                                                                                                                                                                                                                                |
| <b>Epoxy acrylate (42978-66-5)</b>            |                                                                                                                                                                                                                                                                                                                 |
| STOT-single exposure                          | May cause respiratory irritation.                                                                                                                                                                                                                                                                               |
| STOT-repeated exposure                        | : Not classified                                                                                                                                                                                                                                                                                                |
| <b>Epoxy phenol novolac resin (9003-36-5)</b> |                                                                                                                                                                                                                                                                                                                 |
| NOAEL (oral,rat,90 days)                      | ≈ 250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)                                                                                                                                                                                              |
| <b>Substituted imidazole (931-36-2)</b>       |                                                                                                                                                                                                                                                                                                                 |
| NOAEL (oral,rat,90 days)                      | 150 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:EPA OPPTS 870.3650 (Combined Repeated Dose Toxicity Study with the Reproduction/Developmental Toxicity Screening Test) |
| <b>Imidazole (288-32-4)</b>                   |                                                                                                                                                                                                                                                                                                                 |
| NOAEL (oral,rat,90 days)                      | 60 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)                                                                                                                                                                                                 |
| <b>Epoxy acrylate (55818-57-0)</b>            |                                                                                                                                                                                                                                                                                                                 |
| NOAEL (oral,rat,90 days)                      | > 900 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)                                                                                                                                        |
| <b>Epoxy acrylate (42978-66-5)</b>            |                                                                                                                                                                                                                                                                                                                 |
| NOAEL (oral,rat,90 days)                      | 250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)                                                                                                                                          |
| Aspiration hazard                             | : Not classified                                                                                                                                                                                                                                                                                                |
| <b>Epoxy phenol novolac resin (9003-36-5)</b> |                                                                                                                                                                                                                                                                                                                 |
| Viscosity, kinematic                          | No data available in the literature                                                                                                                                                                                                                                                                             |
| <b>Substituted imidazole (822-36-6)</b>       |                                                                                                                                                                                                                                                                                                                 |
| Viscosity, kinematic                          | Not applicable (solid)                                                                                                                                                                                                                                                                                          |
| <b>Substituted imidazole (931-36-2)</b>       |                                                                                                                                                                                                                                                                                                                 |
| Viscosity, kinematic                          | 1435.897 mm²/s                                                                                                                                                                                                                                                                                                  |

# EPO-TEK® HYB-353ND-HV PMF SYRINGE

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

| Epoxy phenol novolac resin (9003-36-5) |                                                    |
|----------------------------------------|----------------------------------------------------|
| Imidazole (288-32-4)                   |                                                    |
| Viscosity, kinematic                   | No data available in the literature                |
| Photoinitiator (75980-60-8)            |                                                    |
| Viscosity, kinematic                   | Not applicable (solid)                             |
| Epoxy acrylate (42978-66-5)            |                                                    |
| Viscosity, kinematic                   | 14.5 mm²/s (20 °C, OECD 114: Viscosity of Liquids) |
| Symptoms/effects after inhalation      | : None under normal conditions.                    |
| Symptoms/effects after skin contact    | : Irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact     | : Serious damage to eyes.                          |
| Symptoms/effects after ingestion       | : None under normal conditions.                    |
| Chronic symptoms                       | : May damage fertility or the unborn child.        |

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

|                                                           |                                                         |
|-----------------------------------------------------------|---------------------------------------------------------|
| Ecology - general                                         | : Very toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified.                                       |
| Hazardous to the aquatic environment, long-term (chronic) | : Very toxic to aquatic life with long lasting effects. |

| Epoxy phenol novolac resin (9003-36-5) |                                                                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| LC50 - Fish [1]                        | 1.9 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Semi-static system, Fresh water, Weight of evidence)         |
| EC50 - Crustacea [1]                   | 3.5 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Weight of evidence, GLP) |
| LC50 - Fish [2]                        | 1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)                                             |
| EC50 72h - Algae [1]                   | 1.8 mg/l (Equivalent or similar to OECD 201, Selenastrum capricornutum, Static system, Fresh water, Experimental value)              |
| LOEC (chronic)                         | 1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                      |
| NOEC (chronic)                         | 0.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                                                                    |
| Substituted imidazole (822-36-6)       |                                                                                                                                      |
| LC50 - Fish [1]                        | 0.34 mg/l Source: IUCLID                                                                                                             |
| EC50 - Crustacea [1]                   | 180 mg/l Source: IUCLID                                                                                                              |
| EC50 72h - Algae [1]                   | 2 mg/l Source: IUCLID                                                                                                                |
| Substituted imidazole (931-36-2)       |                                                                                                                                      |
| LC50 - Fish [1]                        | 68.1 mg/l (DIN 38412-15, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value)                                       |
| EC50 - Crustacea [1]                   | 297.3 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)                                      |
| EC50 72h - Algae [1]                   | 124.8 mg/l (DIN 38412-9, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Growth rate)                       |

# EPO-TEK® HYB-353ND-HV PMF SYRINGE

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

| Substituted imidazole (931-36-2)    |                                                                                                                                                                                                          |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EC50 72h - Algae [2]                | 72 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)                                                                                                       |
| EC50 96h - Algae [1]                | 6.057 mg/l Source: Ecological Structure Activity Relationships                                                                                                                                           |
| Imidazole (288-32-4)                |                                                                                                                                                                                                          |
| LC50 - Fish [1]                     | 283.6 mg/l (48 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)                                                                                                 |
| EC50 - Crustacea [1]                | 341.5 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)                                                                                        |
| EC50 72h - Algae [1]                | 133 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)                                                                                                      |
| ErC50 algae                         | 133 mg/l (DIN 38412: German standard methods for the examination of water, waste water and sludge, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration) |
| NOEC chronic algae                  | 25 mg/l                                                                                                                                                                                                  |
| Photoinitiator (75980-60-8)         |                                                                                                                                                                                                          |
| LC50 - Fish [1]                     | 1.4 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinus carpio, Semi-static system, Fresh water, Experimental value, Measured concentration)                                                       |
| EC50 - Crustacea [1]                | 3.5 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Measured concentration)                                                  |
| ErC50 algae                         | > 2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Measured concentration)                                         |
| Epoxy acrylate (55818-57-0)         |                                                                                                                                                                                                          |
| LC50 - Fish [1]                     | > 0.082 mg/l Test organisms (species): Cyprinus carpio                                                                                                                                                   |
| EC50 - Crustacea [1]                | > 16 mg/l Test organisms (species): Daphnia magna                                                                                                                                                        |
| EC50 72h - Algae [1]                | 17 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)                                                                  |
| EC50 72h - Algae [2]                | 4.9 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)                                                                 |
| Epoxy acrylate (42978-66-5)         |                                                                                                                                                                                                          |
| LC50 - Fish [1]                     | 4.5 – 10 mg/l (DIN 38412-15, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)                                                                                |
| EC50 - Crustacea [1]                | 89 mg/l (EU Method C.1, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)                                                                                           |
| EC50 72h - Algae [1]                | 65.9 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)                                                                                                     |
| ErC50 algae                         | 65.9 mg/l (DIN 38412-9, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)                                                                            |
| 12.2. Persistence and degradability |                                                                                                                                                                                                          |
| EPO-TEK® HYB-353ND-HV PMF SYRINGE   |                                                                                                                                                                                                          |
| Persistence and degradability       | Not rapidly degradable                                                                                                                                                                                   |

# EPO-TEK® HYB-353ND-HV PMF SYRINGE

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

|                                               |                                                                    |
|-----------------------------------------------|--------------------------------------------------------------------|
| <b>Epoxy phenol novolac resin (9003-36-5)</b> |                                                                    |
| Persistence and degradability                 | Not readily biodegradable in water.                                |
| <b>Substituted imidazole (822-36-6)</b>       |                                                                    |
| Persistence and degradability                 | Inherently biodegradable, Not readily biodegradable in water.      |
| Biochemical oxygen demand (BOD)               | 0.000002 g O <sub>2</sub> /g substance                             |
| Chemical oxygen demand (COD)                  | 0.0015 g O <sub>2</sub> /g substance                               |
| <b>Substituted imidazole (931-36-2)</b>       |                                                                    |
| Persistence and degradability                 | Readily biodegradable in water.                                    |
| <b>Imidazole (288-32-4)</b>                   |                                                                    |
| Persistence and degradability                 | Readily biodegradable in the soil, Readily biodegradable in water. |
| <b>Photoinitiator (75980-60-8)</b>            |                                                                    |
| Persistence and degradability                 | Not readily biodegradable in water.                                |
| <b>Epoxy acrylate (55818-57-0)</b>            |                                                                    |
| Persistence and degradability                 | Not rapidly degradable                                             |
| <b>Epoxy acrylate (42978-66-5)</b>            |                                                                    |
| Persistence and degradability                 | Not readily biodegradable in water.                                |

### 12.3. Bioaccumulative potential

|                                                 |                                                                                                                   |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Epoxy phenol novolac resin (9003-36-5)</b>   |                                                                                                                   |
| Partition coefficient n-octanol/water (Log Pow) | 2.7 – 3.6 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)                    |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).                                                                  |
| <b>Substituted imidazole (822-36-6)</b>         |                                                                                                                   |
| Partition coefficient n-octanol/water (Log Pow) | 0.23 (Literature)                                                                                                 |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).                                                                  |
| <b>Substituted imidazole (931-36-2)</b>         |                                                                                                                   |
| Partition coefficient n-octanol/water (Log Pow) | 1.13 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)           |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).                                                                  |
| <b>Imidazole (288-32-4)</b>                     |                                                                                                                   |
| Partition coefficient n-octanol/water (Log Pow) | -0.02 (Weight of evidence approach, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C) |
| Bioaccumulative potential                       | Not bioaccumulative.                                                                                              |
| <b>Photoinitiator (75980-60-8)</b>              |                                                                                                                   |
| BCF - Fish [1]                                  | 18 – 40 (8 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value)                        |
| Partition coefficient n-octanol/water (Log Pow) | 3.1 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 23 °C)                   |
| Bioaccumulative potential                       | Low potential for bioaccumulation (BCF < 500).                                                                    |

# EPO-TEK® HYB-353ND-HV PMF SYRINGE

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

| Epoxy acrylate (42978-66-5)                     |                                                                     |
|-------------------------------------------------|---------------------------------------------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2 (Experimental value, EU Method A.8: Partition Coefficient, 25 °C) |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).                    |

### 12.4. Mobility in soil

| Epoxy phenol novolac resin (9003-36-5)                     |                                                                                                                                                                               |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.65 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value) |
| Ecology - soil                                             | Low potential for mobility in soil.                                                                                                                                           |

| Substituted imidazole (822-36-6)                           |                                                    |
|------------------------------------------------------------|----------------------------------------------------|
| Mobility in soil                                           | 28.23 Source: EPI SUITE                            |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.5 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil                                             | Highly mobile in soil.                             |

| Substituted imidazole (931-36-2)                           |                                          |
|------------------------------------------------------------|------------------------------------------|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.71 (log Koc, Calculated value, pH = 7) |
| Ecology - soil                                             | Low potential for mobility in soil.      |

| Imidazole (288-32-4)                                       |                                         |
|------------------------------------------------------------|-----------------------------------------|
| Surface tension                                            | No data available in the literature     |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.36 – 2.32 (log Koc, Calculated value) |
| Ecology - soil                                             | Low potential for adsorption in soil.   |

| Photoinitiator (75980-60-8)                                |                                                     |
|------------------------------------------------------------|-----------------------------------------------------|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.9 (log Koc, SRC PCKOCWIN v1.66, Calculated value) |
| Ecology - soil                                             | Low potential for adsorption in soil.               |

| Epoxy acrylate (42978-66-5)                                |                                                   |
|------------------------------------------------------------|---------------------------------------------------|
| Surface tension                                            | No data available in the literature               |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1 (log Koc, SRC PCKOCWIN v1.66, Calculated value) |
| Ecology - soil                                             | Highly mobile in soil.                            |

### 12.5. Other adverse effects

|                              |                  |
|------------------------------|------------------|
| Ozone                        | : Not classified |
| Fluorinated greenhouse gases | : No             |

## SECTION 13 Disposal considerations

|                                            |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |

# EPO-TEK® HYB-353ND-HV PMF SYRINGE

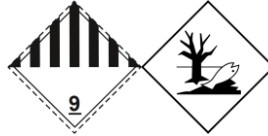
## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

|                              |                                                                                                                                                                                                                                         |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional information       | : Do not re-use empty containers.                                                                                                                                                                                                       |
| Ecological waste information | : The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself. |

### SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

| DOT                                                                                | TDG                                                                                | IMDG                                                                                | IATA                                                                                 |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>14.1. UN number</b>                                                             |                                                                                    |                                                                                     |                                                                                      |
| UN3082                                                                             | UN3082                                                                             | 3082                                                                                | 3082                                                                                 |
| <b>14.2. Proper Shipping Name</b>                                                  |                                                                                    |                                                                                     |                                                                                      |
| Environmentally hazardous substances, liquid, n.o.s. (Epoxy Phenol Novolac)        | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Phenol Novolac)         | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Phenol Novolac)          | Environmentally hazardous substance, liquid, n.o.s. (Epoxy Phenol Novolac)           |
| <b>14.3. Transport hazard class(es)</b>                                            |                                                                                    |                                                                                     |                                                                                      |
| 9                                                                                  | 9                                                                                  | 9                                                                                   | 9                                                                                    |
|  |  |  |  |
| <b>14.4. Packing group</b>                                                         |                                                                                    |                                                                                     |                                                                                      |
| III                                                                                | III                                                                                | III                                                                                 | III                                                                                  |
| <b>14.5. Environmental hazards</b>                                                 |                                                                                    |                                                                                     |                                                                                      |
| Dangerous for the environment: Yes                                                 | Dangerous for the environment: Yes                                                 | Dangerous for the environment: Yes<br>Marine pollutant: Yes                         | Dangerous for the environment: Yes                                                   |
| No supplementary information available                                             |                                                                                    |                                                                                     |                                                                                      |

### 14.6. Transport in bulk

Not applicable

### 14.7. Special precautions for user

|              |          |
|--------------|----------|
| <b>DOT</b>   |          |
| UN-No. (DOT) | : UN3082 |

# EPO-TEK® HYB-353ND-HV PMF SYRINGE

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DOT Special Provisions (49 CFR 172.102)                          | : 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.<br>146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.<br>173 - An appropriate generic entry may be used for this material.<br>335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s.," UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leak-proof when used as bulk packaging.<br>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).<br>T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)<br>TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.<br>TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP. |
| DOT Packaging Exceptions (49 CFR 173.xxx)                        | : 155                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| DOT Packaging Non Bulk (49 CFR 173.xxx)                          | : 203                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| DOT Packaging Bulk (49 CFR 173.xxx)                              | : 241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : No Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)     | : No Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| DOT Vessel Stowage Location                                      | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>TDG</b>                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| UN-No. (TDG)                                                     | : UN3082                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

# EPO-TEK® HYB-353ND-HV PMF SYRINGE

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

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|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TDG Special Provisions                       | : 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3).<br>(2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name:<br>(a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S;<br>(b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S;<br>(c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S;<br>(d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or<br>(e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.<br>(3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment:<br>(a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or<br>(b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS,99 - (1) Mixtures of solids that are not dangerous goods and liquids or solids that are UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, may be offered for transport, handled or transported as UN3077 if there is no visible liquid when the dangerous goods are loaded into a means of containment and during transport.<br>(2) These Regulations, except for Parts 1 and 2, do not apply to the offering for transport, handling or transport of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no release of the dangerous goods that could endanger public safety. |
| Explosive Limit and Limited Quantity Index   | : 5 L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Excepted quantities (TDG)                    | : E1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Emergency Response Guide (ERG) Number        | : 171                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>IMDG</b>                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Special provision (IMDG)                     | : 274, 335, 969                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Limited quantities (IMDG)                    | : 5 L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Excepted quantities (IMDG)                   | : E1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Packing instructions (IMDG)                  | : LP01, P001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Packing provisions (IMDG)                    | : PP1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| IBC packing instructions (IMDG)              | : IBC03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Tank instructions (IMDG)                     | : T4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Tank special provisions (IMDG)               | : TP1, TP29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| EmS-No. (Fire)                               | : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| EmS-No. (Spillage)                           | : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Stowage category (IMDG)                      | : A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>IATA</b>                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Special provision (IATA)                     | : A97, A158, A197, A215                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| PCA Excepted quantities (IATA)               | : E1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| PCA Limited quantities (IATA)                | : Y964                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| PCA limited quantity max net quantity (IATA) | : 30kgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| PCA packing instructions (IATA)              | : 964                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| PCA max net quantity (IATA)                  | : 450L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| CAO packing instructions (IATA)              | : 964                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| CAO max net quantity (IATA)                  | : 450L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

# EPO-TEK® HYB-353ND-HV PMF SYRINGE

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

ERG code (IATA)

: 9L

### SECTION 15 Regulatory information

#### 15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

#### 15.2. International regulations

##### CANADA

##### Epoxy phenol novolac resin (9003-36-5)

Listed on the Canadian DSL (Domestic Substances List)

##### Substituted imidazole (822-36-6)

Listed on the Canadian NDSL (Non-Domestic Substances List)

##### Substituted imidazole (931-36-2)

Listed on the Canadian DSL (Domestic Substances List)

##### Imidazole (288-32-4)

Listed on the Canadian DSL (Domestic Substances List)

##### Photoinitiator (75980-60-8)

Listed on the Canadian DSL (Domestic Substances List)

##### Epoxy acrylate (55818-57-0)

Listed on the Canadian DSL (Domestic Substances List)

##### Epoxy acrylate (42978-66-5)

Listed on the Canadian DSL (Domestic Substances List)

##### EU-Regulations

No additional information available

##### National regulations

##### Epoxy phenol novolac resin (9003-36-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

##### Substituted imidazole (822-36-6)

Listed on IARC (International Agency for Research on Cancer)

##### Imidazole (288-32-4)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

# EPO-TEK® HYB-353ND-HV PMF SYRINGE

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

### Photoinitiator (75980-60-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Epoxy acrylate (55818-57-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Epoxy acrylate (42978-66-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

## 15.3. State regulations



### WARNING:

This product can expose you to 4-Methylimidazole, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

Revision date : 7/29/2026

Issue date : 12/7/2022

### Full text of hazard classes and H-statements

|      |                                                      |
|------|------------------------------------------------------|
| 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                        |
| H335 | May cause respiratory irritation                     |
| H351 | Suspected of causing cancer.                         |
| H360 | May damage fertility or the unborn child             |
| H361 | Suspected of damaging fertility or the unborn child  |
| H401 | Toxic to aquatic life                                |
| H410 | Very toxic to aquatic life with long lasting effects |
| H411 | Toxic to aquatic life with long lasting effects      |

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.