# SAFETY DATA SHEET
# EPO-TEK® EJ2189-VLV Part A

## 1. Identification

### Product identifier

**Product name** EPO-TEK® EJ2189-VLV Part A

**Product number** EJ2189-VLV/A

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

**Application** Adhesive.

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

### Details of the supplier of the safety data sheet

**Supplier**

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

### Emergency telephone number

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

## 2. Hazard(s) identification

### Classification of the substance or mixture

**Physical hazards** Not Classified

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

**Environmental hazards** Aquatic Chronic 2 - H411

### Label elements

**Hazard symbols**

**Signal word** Danger

**Hazard statements** H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.

# EPO-TEK® EJ2189-VLV Part A

**Precautionary statements**

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 If on skin: Wash with plenty of water.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/ container in accordance with national regulations.

**Contains**

Silver, Epoxy Phenol Novolac, Reactive Diluent

**Other hazards**

**Hazards not otherwise classified (HNOC)**

Contains epoxy constituents. May produce an allergic reaction.

## 3. Composition/information on ingredients

**Mixtures**

**Silver** **60-100%**

CAS number: 7440-22-4

**Classification**
Aquatic Chronic 2 - H411

**Epoxy Phenol Novolac** **10-30%**

CAS number: 9003-36-5

**Classification**
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317
Aquatic Chronic 2 - H411

**Reactive Diluent** **5-10%**

CAS number: Proprietary

**Classification**
Acute Tox. 4 - H302
Eye Dam. 1 - H318
STOT SE 3 - H336

**Reactive Diluent** **1-5%**

CAS number: Proprietary

**Classification**
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Acute Tox. 4 - H332
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Skin Sens. 1 - H317

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

# EPO-TEK® EJ2189-VLV Part A

## 4. First-aid measures

### Description of first aid measures

**Inhalation** Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

**Ingestion** Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

**Skin Contact** Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

**Eye contact** Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

### Most important symptoms and effects, both acute and delayed

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

**Ingestion** May cause discomfort if swallowed.

**Skin contact** Causes skin irritation. May cause sensitisation by skin contact.

**Eye contact** Causes serious eye damage.

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

**Notes for the doctor** Treat symptomatically.

## 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** Dry chemicals. Foam. Carbon dioxide (CO2).

### Special hazards arising from the substance or mixture

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2).

### Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapors. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

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

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

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

### Environmental precautions

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

### Methods and material for containment and cleaning up

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

# EPO-TEK® EJ2189-VLV Part A

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

## 7. Handling and storage

### Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Do not eat, drink or smoke when using the product. Provide adequate ventilation.

**Advice on general occupational hygiene** Provide eyewash station. Do not eat, drink or smoke when using this product. Wash promptly if skin becomes contaminated. Wash after use and before eating, smoking and using the toilet. Wash contaminated clothing before reuse. Use appropriate skin cream to prevent drying of skin.

### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store at room temperature. Keep container tightly sealed when not in use.

**Storage class** Chemical storage.

### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

## 8. Exposure controls/Personal protection

### Control parameters

### Occupational exposure limits

**Silver**

Long-term exposure limit (8-hour TWA): 0.1

### Exposure controls

**Protective equipment**

**Appropriate engineering controls** Provide adequate general and local exhaust ventilation.

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

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

**Other skin and body protection** Wear appropriate clothing to prevent any possibility of skin contact.

**Hygiene measures** Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

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

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

**Appearance** Paste.

**Color** Silver.

**Odor** Mild.

# EPO-TEK® EJ2189-VLV Part A

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

## 10. Stability and reactivity

| | |
|---|---|
| **Reactivity** | The following materials may react with the product: Strong alkalis. Strong oxidizing agents. Strong reducing agents. Acids. |
| **Stability** | Stable at normal ambient temperatures and when used as recommended. |
| **Possibility of hazardous reactions** | Will not polymerize. |
| **Conditions to avoid** | Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of ignition. |
| **Materials to avoid** | Strong acids. Strong alkalis. Strong reducing agents. Strong oxidizing agents. |
| **Hazardous decomposition products** | Fire creates: Carbon monoxide (CO). Carbon dioxide ($CO_2$). |

## 11. Toxicological information

### Information on toxicological effects

**Acute toxicity - oral**

| | |
|---|---|
| **ATE oral (mg/kg)** | 4,117.26 |

**Acute toxicity - dermal**

| | |
|---|---|
| **ATE dermal (mg/kg)** | 30,437.19 |

**Acute toxicity - inhalation**

# EPO-TEK® EJ2189-VLV Part A

| | |
|---|---|
| **ATE inhalation (gases ppm)** | 124,515.77 |
| **ATE inhalation (vapours mg/l)** | 304.37 |
| **ATE inhalation (dusts/mists mg/l)** | 41.51 |

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

## 12. Ecological information

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

**Acute aquatic toxicity**

**Acute toxicity - fish** Not available.

**Persistence and degradability**

**Persistence and degradability** No data available.

**Bioaccumulative potential**

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

**Partition coefficient** No specific test data are available.

**Mobility in soil**

**Mobility** No data available.

**Other adverse effects**

**Other adverse effects** Not known.

## 13. Disposal considerations

**Waste treatment methods**

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

## 14. Transport information

**UN Number**

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

**UN proper shipping name**

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

# EPO-TEK® EJ2189-VLV Part A

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

**Transport hazard class(es)**

| | |
|---|---|
| **TDG class** | 9 |
| **TDG label(s)** | 9 |
| **IMDG Class** | 9 |
| **ICAO class/division** | 9 |

**Transport labels**


**Packing group**

| | |
|---|---|
| **TDG Packing Group** | III |
| **IMDG packing group** | III |
| **ICAO packing group** | III |
| **DOT packing group** | III |

**Environmental hazards**

**Environmentally Hazardous Substance**

**Special precautions for user**

| | |
|---|---|
| **EmS** | F-A, S-F |
| **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | Not applicable. |

## 15. Regulatory information

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

**US Federal Regulations**

**SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None of the ingredients are required to be listed.

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

The following ingredients are listed or exempt:

# EPO-TEK® EJ2189-VLV Part A

*Silver*
1,000 lbs (454 Kg)

**SARA Extremely Hazardous Substances EPCRA Reportable Quantities**
None of the ingredients are required to be listed.

**SARA 313 Emission Reporting**
The following ingredients are listed or exempt:

*Silver*

**CAA Accidental Release Prevention**
None of the ingredients are required to be listed.

**OSHA Highly Hazardous Chemicals**
None of the ingredients are required to be listed.

## US State Regulations

**California Proposition 65 Carcinogens and Reproductive Toxins**
None of the ingredients are required to be listed.

**California Air Toxics "Hot Spots" (A-I)**
The following ingredients are listed or exempt:

*Silver*

**California Air Toxics "Hot Spots" (A-II)**
None of the ingredients are required to be listed.

**Massachusetts "Right To Know" List**
The following ingredients are listed or exempt:

*Silver*

**Rhode Island "Right To Know" List**
The following ingredients are listed or exempt:

*Silver*

**Minnesota "Right To Know" List**
The following ingredients are listed or exempt:

*Silver*

**New Jersey "Right To Know" List**
The following ingredients are listed or exempt:

*Silver*

**Pennsylvania "Right To Know" List**
The following ingredients are listed or exempt:

*Silver*

## Inventories

**EU - EINECS/ELINCS**
Some of the ingredients are listed or exempt.

**Canada - DSL/NDSL**
All the ingredients are listed or exempt.

# EPO-TEK® EJ2189-VLV Part A

**US - TSCA**
All the ingredients are listed or exempt.

**US - TSCA 12(b) Export Notification**
None of the ingredients are listed or exempt.

**Australia - AICS**
Some of the ingredients are listed or exempt.

**Japan - ENCS**
Some of the ingredients are listed or exempt.

**Korea - KECI**
All the ingredients are listed or exempt.

**China - IECSC**
Some of the ingredients are listed or exempt.

**Philippines - PICCS**
All the ingredients are listed or exempt.

## 16. Other information

| | |
|---|---|
| **Revision date** | 8/26/2019 |
| **Revision** | 2 |
| **Supersedes date** | 2/9/2016 |
| **Hazard statements in full** | H302 Harmful if swallowed.<br>H312 Harmful in contact with skin.<br>H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H318 Causes serious eye damage.<br>H319 Causes serious eye irritation.<br>H332 Harmful if inhaled.<br>H336 May cause drowsiness or dizziness.<br>H411 Toxic to aquatic life with long lasting effects. |

# SAFETY DATA SHEET
# EPO-TEK® EJ2189-VLV Part B

## 1. Identification

### Product identifier

**Product name** EPO-TEK® EJ2189-VLV Part B

**Product number** EJ2189-VLV/B

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

**Application** Adhesive.

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

### Details of the supplier of the safety data sheet

**Supplier**

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

### Emergency telephone number

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

## 2. Hazard(s) identification

### Classification of the substance or mixture

**Physical hazards** Not Classified

**Health hazards** Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335

**Environmental hazards** Aquatic Chronic 3 - H412

### Label elements

**Hazard symbols**

**Signal word** Danger

**Hazard statements**

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

# EPO-TEK® EJ2189-VLV Part B

**Precautionary statements** P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P501 Dispose of contents/ container in accordance with national regulations.

**Contains** Tetraethylenepentamine

## 3. Composition/information on ingredients

### Mixtures

**Tetraethylenepentamine** **10-30%**

CAS number: 112-57-2

**Classification**
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Skin Corr. 1B - H314
Eye Dam. 1 - H318
Skin Sens. 1 - H317
Aquatic Chronic 2 - H411

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

## 4. First-aid measures

### Description of first aid measures

**Inhalation** Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

**Ingestion** Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.

**Skin Contact** Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

**Eye contact** Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

### Most important symptoms and effects, both acute and delayed

**Inhalation** Irritation of nose, throat and airway.

**Ingestion** May cause stomach pain or vomiting. May cause chemical burns in mouth, esophagus and stomach.

**Skin contact** May cause serious chemical burns to the skin. May cause sensitisation by skin contact.

**Eye contact** Severe irritation, burning and tearing. Corneal damage.

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

**Notes for the doctor** Treat symptomatically.

## 5. Fire-fighting measures

### Extinguishing media

# EPO-TEK® EJ2189-VLV Part B

**Suitable extinguishing media** Dry chemicals. Foam. Water spray.

### Special hazards arising from the substance or mixture

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2).

### Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapors. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

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

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

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

### Environmental precautions

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

### Methods and material for containment and cleaning up

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

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

## 7. Handling and storage

### Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Do not eat, drink or smoke when using the product. Avoid inhalation of vapors.

**Advice on general occupational hygiene** Provide eyewash station and safety shower. Do not eat, drink or smoke when using this product. Wash promptly if skin becomes contaminated. Wash after use and before eating, smoking and using the toilet. Wash contaminated clothing before reuse. Use appropriate skin cream to prevent drying of skin.

### Conditions for safe storage, including any incompatibilities

**Storage precautions** Store at room temperature. Keep container tightly sealed when not in use.

**Storage class** Chemical storage.

### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.

## 8. Exposure controls/Personal protection

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

### Exposure controls

# EPO-TEK® EJ2189-VLV Part B

**Protective equipment**

| | |
|---|---|
| **Appropriate engineering controls** | Provide adequate general and local exhaust ventilation. |
| **Eye/face protection** | Wear tight-fitting, chemical splash goggles or face shield. |
| **Hand protection** | It is recommended that chemical-resistant, impervious gloves are worn. |
| **Other skin and body protection** | Wear appropriate clothing to prevent any possibility of skin contact. |
| **Hygiene measures** | Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. |
| **Respiratory protection** | If ventilation is inadequate, suitable respiratory protection must be worn. |

## 9. Physical and chemical properties

**Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance** | Liquid. |
| **Color** | Amber. |
| **Odor** | Mild. |
| **Odor threshold** | No specific test data are available. |
| **pH** | No specific test data are available. |
| **Melting point** | No specific test data are available. |
| **Initial boiling point and range** | No specific test data are available. |
| **Flash point** | > 195°C |
| **Evaporation rate** | <BuAc |
| **Flammability (solid, gas)** | No specific test data are available. |
| **Vapor density** | >1 |
| **Solubility(ies)** | Slightly soluble in water. |
| **Partition coefficient** | No specific test data are available. |
| **Other information** | None. |

## 10. Stability and reactivity

| | |
|---|---|
| **Reactivity** | The following materials may react with the product: Acids. Alkalis. Strong oxidizing agents. Strong reducing agents. |
| **Stability** | Stable at normal ambient temperatures and when used as recommended. |
| **Possibility of hazardous reactions** | Will not polymerize. |

# EPO-TEK® EJ2189-VLV Part B

| | |
|---|---|
| **Conditions to avoid** | Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Oxidizing agents. Reducing agents. Avoid contact with acids and alkalis. |
| **Materials to avoid** | Strong acids. Strong oxidizing agents. Strong reducing agents. |
| **Hazardous decomposition products** | Fire creates: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide ($CO_2$). Nitric acid ($HNO_3$). Nitrous gases (NOx). |

## 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity - oral

| | |
|---|---|
| **ATE oral (mg/kg)** | 3,333.33 |

#### Acute toxicity - dermal

| | |
|---|---|
| **ATE dermal (mg/kg)** | 7,333.33 |

| | |
|---|---|
| **Inhalation** | Irritating to respiratory system. |
| **Ingestion** | May cause stomach pain or vomiting. May cause chemical burns in mouth, esophagus and stomach. |
| **Skin Contact** | May cause sensitisation by skin contact. Causes burns. |
| **Eye contact** | Causes burns. Risk of serious damage to eyes. |

## 12. Ecological information

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

#### Acute aquatic toxicity

| | |
|---|---|
| **Acute toxicity - fish** | Not available. |

#### Persistence and degradability

| | |
|---|---|
| **Persistence and degradability** | The product is biodegradable. |

#### Bioaccumulative potential

| | |
|---|---|
| **Bio-Accumulative Potential** | No data available on bioaccumulation. |
| **Partition coefficient** | No specific test data are available. |

#### Mobility in soil

| | |
|---|---|
| **Mobility** | Mobile. |

#### Other adverse effects

| | |
|---|---|
| **Other adverse effects** | Not known. |

## 13. Disposal considerations

#### Waste treatment methods

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

## 14. Transport information

#### UN Number

# EPO-TEK® EJ2189-VLV Part B

| | |
|---|---|
| **UN No. (TDG)** | 2320 |
| **UN No. (IMDG)** | 2320 |
| **UN No. (ICAO)** | 2320 |
| **UN No. (DOT)** | 2320 |

**UN proper shipping name**

| | |
|---|---|
| **Proper shipping name (TDG)** | TETRAETHYLENEPENTAMINE |
| **Proper shipping name (IMDG)** | TETRAETHYLENEPENTAMINE |
| **Proper shipping name (ICAO)** | TETRAETHYLENEPENTAMINE |
| **Proper shipping name (DOT)** | TETRAETHYLENEPENTAMINE |

**Transport hazard class(es)**

| | |
|---|---|
| **TDG class** | 8 |
| **TDG label(s)** | 8 |
| **IMDG Class** | 8 |
| **ICAO class/division** | 8 |

**Transport labels**


**Packing group**

| | |
|---|---|
| **TDG Packing Group** | III |
| **IMDG packing group** | III |
| **ICAO packing group** | III |
| **DOT packing group** | III |

**Environmental hazards**

**Environmentally Hazardous Substance**
No.

**Special precautions for user**

| | |
|---|---|
| **EmS** | F-A, S-B |
| **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | Not applicable. |

## 15. Regulatory information

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

**US Federal Regulations**

**SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**
None of the ingredients are listed.

# EPO-TEK® EJ2189-VLV Part B

### CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
None of the ingredients are listed.

### SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are listed.

### SARA 313 Emission Reporting
None of the ingredients are listed.

### CAA Accidental Release Prevention
None of the ingredients are listed.

### OSHA Highly Hazardous Chemicals
None of the ingredients are listed.

## US State Regulations

### California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are listed.

### California Air Toxics "Hot Spots" (A-I)
None of the ingredients are listed.

### California Air Toxics "Hot Spots" (A-II)
None of the ingredients are listed.

### Massachusetts "Right To Know" List
The following ingredients are listed:

*Tetraethylenepentamine*

### Rhode Island "Right To Know" List
None of the ingredients are listed.

### Minnesota "Right To Know" List
None of the ingredients are listed.

### New Jersey "Right To Know" List
The following ingredients are listed:

*Tetraethylenepentamine*

### Pennsylvania "Right To Know" List
The following ingredients are listed:

*Tetraethylenepentamine*

## Inventories

### EU - EINECS/ELINCS
All the ingredients are listed or exempt.

### Canada - DSL/NDSL
All the ingredients are listed or exempt.

### US - TSCA
All the ingredients are listed or exempt.

### US - TSCA 12(b) Export Notification
None of the ingredients are listed.

# EPO-TEK® EJ2189-VLV Part B

**Australia - AICS**
All the ingredients are listed or exempt.

**Japan - ENCS**
Some of the ingredients are listed or exempt.

**Korea - KECI**
All the ingredients are listed or exempt.

**China - IECSC**
All the ingredients are listed or exempt.

**Philippines - PICCS**
All the ingredients are listed or exempt.

## 16. Other information

| | |
|---|---|
| **Revision date** | 8/26/2019 |
| **Revision** | 2 |
| **Supersedes date** | 2/9/2016 |
| **Hazard statements in full** | H302 Harmful if swallowed.<br>H312 Harmful in contact with skin.<br>H314 Causes severe skin burns and eye damage.<br>H317 May cause an allergic skin reaction.<br>H318 Causes serious eye damage.<br>H335 May cause respiratory irritation.<br>H411 Toxic to aquatic life with long lasting effects.<br>H412 Harmful to aquatic life with long lasting effects. |