

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture  
Product name : EPO-TEK® T6065

### 1.2. Recommended use and restrictions on use

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

### 1.3. Supplier

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)

### 1.4. Emergency telephone number

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

## SECTION 2: Hazard(s) 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 2                     | H319 | Causes serious eye irritation                   |
| Skin sensitization, Category 1                                   | H317 | May cause an allergic skin reaction             |
| Hazardous to the aquatic environment – Chronic Hazard Category 2 | H411 | Toxic to aquatic life with long lasting effects |

Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

#### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Warning

Hazard statements (GHS US) :

H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS US) :

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
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.

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P321 - Specific treatment (see supplemental first aid instruction on this label).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P363 - Wash contaminated clothing before reuse.  
P391 - Collect spillage.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

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

### 2.4. Unknown acute toxicity (GHS US)

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   |
| butanedioldiglycidyl ether | CAS-No.: 2425-79-8 | < 30    | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317 |
| Cyanoguanidine             | CAS-No.: 461-58-5  | 1 – 5   | Acute Tox. 2 (Inhalation:dust,mist),<br>H330   |

Comments : Components not listed are either non-hazardous or are below reportable limits.  
\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.  
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. If eye irritation persists: Get medical advice/attention.  
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

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### 4.2. Most important symptoms and effects (acute and delayed)

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction.  |
| Symptoms/effects after eye contact  | : Eye irritation.   |
| Symptoms/effects after ingestion    | : None under normal conditions.   |

### 4.3. Immediate medical attention and special treatment, if necessary

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. |

### 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. |
|------------------|---|

#### 6.1.1. For non-emergency personnel

|                      |   |
|----------------------|---|
| Protective equipment | : Wear recommended personal protective equipment.   |
| Emergency procedures | : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. |

#### 6.1.2. 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.   |

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material 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.   |
| Other information       | : Dispose of materials or solid residues at an authorized site.   |

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### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                                   |   |
|-----------------------------------|---|
| Additional hazards when processed | : Not expected to present a significant hazard under anticipated conditions of normal use.  |
| Precautions for safe handling     | : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.   |
| Hygiene measures                  | : 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. |

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

|                     |   |
|---------------------|---|
| Technical measures  | : Keep in a cool, well-ventilated place away from heat.                     |
| Storage conditions  | : Keep cool. Protect from sunlight.   |
| Packaging materials | : Store always product in container of same material as original container. |

## 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/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 insufficient ventilation, wear suitable respiratory equipment   |

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



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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|   |                      |
|---|----------------------|
| Physical state                                  | : Liquid             |
| Color   | : White to off-white |
| Odor  | : Mild odour         |
| Odor threshold                                  | : No data available  |
| pH  | : No data available  |
| Melting point                                   | : No data available  |
| Freezing point                                  | : No data available  |
| Boiling point                                   | : No data available  |
| Flash point                                     | : No data available  |
| Relative evaporation rate (butyl acetate=1)     | : No data available  |
| Flammability (solid, gas)                       | : No data available  |
| 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  |
| Viscosity, dynamic                              | : No data available  |
| Explosion limits                                | : No data available  |
| Explosive properties                            | : No data available  |
| Oxidizing properties                            | : No data available  |

#### 9.2. Other information

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.

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### 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

| <b>butanedioldiglycidyl ether (2425-79-8)</b> |   |
|---|---|
| LD50 oral rat                                 | 1134 mg/kg Source: National Library of Medicine   |
| LD50 oral                                     | 1120 mg/kg  |
| LD50 dermal rat                               | > 2150 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
| LD50 dermal rabbit                            | 1130 mg/kg Source: National Library of Medicine   |
| LD50 dermal                                   | 2150 mg/kg  |
| ATE US (oral)                                 | 1120 mg/kg body weight  |
| ATE US (dermal)                               | 1130 mg/kg body weight  |
| ATE US (gases)                                | 4500 ppmV/4h  |
| ATE US (vapors)                               | 11 mg/l/4h  |
| ATE US (dust, mist)                           | 1.5 mg/l/4h   |

| <b>Cyanoguanidine (461-58-5)</b> |  |
|----------------------------------|--|
| LD50 oral rat                    | > 30000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Female, Experimental value, Oral)                             |
| 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)) |
| LC50 Inhalation - Rat            | > 0.259 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))      |
| ATE US (dust, mist)              | 0.05 mg/l/4h   |

Skin corrosion/irritation : Causes skin irritation.

| <b>Epoxy phenol novolac resin (9003-36-5)</b> |                                     |
|---|-------------------------------------|
| pH  | No data available in the literature |

| <b>butanedioldiglycidyl ether (2425-79-8)</b> |           |
|---|-----------|
| pH  | 7 (100 %) |

| <b>Cyanoguanidine (461-58-5)</b> |                                     |
|----------------------------------|-------------------------------------|
| pH                               | No data available in the literature |

Serious eye damage/irritation : Causes serious eye irritation.

| <b>Epoxy phenol novolac resin (9003-36-5)</b> |                                     |
|---|-------------------------------------|
| pH  | No data available in the literature |

| <b>butanedioldiglycidyl ether (2425-79-8)</b> |           |
|---|-----------|
| pH  | 7 (100 %) |

| <b>Cyanoguanidine (461-58-5)</b> |                                     |
|----------------------------------|-------------------------------------|
| pH                               | No data available in the literature |

Respiratory or skin sensitization : May cause an allergic skin reaction.

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|                        |                  |
|------------------------|------------------|
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity        | : Not classified |
| Reproductive toxicity  | : Not classified |
| STOT-single exposure   | : Not classified |
| STOT-repeated exposure | : Not classified |

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

|                          |  |
|--------------------------|--|
| NOAEL (oral,rat,90 days) | ≈ 250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) |
|--------------------------|--|

|                      |                     |
|----------------------|---------------------|
| Aspiration hazard    | : Not classified    |
| Viscosity, kinematic | : No data available |

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

|                      |                                     |
|----------------------|-------------------------------------|
| Viscosity, kinematic | No data available in the literature |
|----------------------|-------------------------------------|

### butanedioldiglycidyl ether (2425-79-8)

|                      |  |
|----------------------|--|
| Viscosity, kinematic | 15.2 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)' |
|----------------------|--|

### Cyanoguanidine (461-58-5)

|                      |                        |
|----------------------|------------------------|
| Viscosity, kinematic | Not applicable (solid) |
|----------------------|------------------------|

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction.  |
| Symptoms/effects after eye contact  | : Eye irritation.   |
| Symptoms/effects after ingestion    | : None under normal conditions.   |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                   |  |
|-------------------|--|
| Ecology - general | : 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'  |

### butanedioldiglycidyl ether (2425-79-8)

|                      |   |
|----------------------|---|
| LC50 - Fish [1]      | 13 mg/l   |
| EC50 - Crustacea [1] | 22 mg/l Source: National Institute of Technology and Evaluation   |
| EC50 72h - Algae [1] | > 93 mg/l Source: National Institute of Technology and Evaluation |
| NOEC chronic algae   | 29 mg/l   |

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| Cyanoguanidine (461-58-5) |  |
|---------------------------|--|
| LC50 - Fish [1]           | 7700 ppm (96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)  |
| EC50 - Crustacea [1]      | 3177 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect) |
| LOEC (chronic)            | 50 mg/l Test organisms (species): Daphnia magna Duration: '21 d'   |
| NOEC (chronic)            | 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'   |
| NOEC chronic fish         | ≥ 100 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'  |

### 12.2. Persistence and degradability

| EPO-TEK® T6065                         |                                     |
|--|-------------------------------------|
| Persistence and degradability          | Not rapidly degradable              |
| Epoxy phenol novolac resin (9003-36-5) |                                     |
| Persistence and degradability          | Not readily biodegradable in water. |
| butanedioldiglycidyl ether (2425-79-8) |                                     |
| Persistence and degradability          | Not readily biodegradable in water. |
| Cyanoguanidine (461-58-5)              |                                     |
| Persistence and degradability          | Not readily biodegradable in water. |

### 12.3. Bioaccumulative potential

| Epoxy phenol novolac resin (9003-36-5)          |   |
|---|---|
| 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).  |
| butanedioldiglycidyl ether (2425-79-8)          |   |
| Partition coefficient n-octanol/water (Log Pow) | -0.27 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)     |
| Bioaccumulative potential                       | Not bioaccumulative.  |
| Cyanoguanidine (461-58-5)                       |   |
| Partition coefficient n-octanol/water (Log Pow) | -1 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20 °C) |
| Bioaccumulative potential                       | Not bioaccumulative.  |

### 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.   |
| butanedioldiglycidyl ether (2425-79-8)                     |   |
| Mobility in soil   | 0.48 Source: Quantitative Structure Activity Relation   |



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| <b>butanedioldiglycidyl ether (2425-79-8)</b>              |   |
|--|---|
| Surface tension  | 44.4 mN/m (20 °C, 90 %, EU Method A.5: Surface tension)   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.1 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |
| Ecology - soil   | Highly mobile in soil.  |
| <b>Cyanoguanidine (461-58-5)</b>                           |   |
| Surface tension  | No data available in the literature   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.638 – 0.951 (log Koc, SRC PCKOCWIN v2.0, Calculated value)  |
| Ecology - soil   | Highly mobile in soil.  |

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

|  |   |
|--|---|
| 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.                                    |
| Additional information                     | : Do not re-use empty containers.   |

## 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 resin) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy phenol novolac resin) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy phenol novolac resin) | Environmentally hazardous substance, liquid, n.o.s. (Epoxy phenol novolac resin) |
| <b>14.3. Transport hazard class(es)</b>   |  |  |  |
| 9   | 9  | 9  | 9  |
|   |  |  |  |
| <b>14.4. Packing group</b>  |  |  |  |
| III   | III  | III  | III  |

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| DOT                                    | TDG                                | IMDG  | IATA                               |
|--|------------------------------------|---|------------------------------------|
| <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. Special precautions for user

#### DOT

|  |   |
|--|---|
| UN-No.(DOT)  | : UN3082  |
| 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.   |

#### TDG

UN-No. (TDG) : UN3082

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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>                                  |  |
| 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   |
| Special provision (IATA)                     | : A97, A158, A197, A215  |

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ERG code (IATA) : 9L

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US 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

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

|  |                   |          |
|--|-------------------|----------|
| Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ) (non-fibrous) | CAS-No. 1344-28-1 | 30 – 60% |
|--|-------------------|----------|

### 15.2. International regulations

#### CANADA

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

Listed on the Canadian DSL (Domestic Substances List)

#### butanedioldiglycidyl ether (2425-79-8)

Listed on the Canadian DSL (Domestic Substances List)

#### Cyanoguanidine (461-58-5)

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)

#### Cyanoguanidine (461-58-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

|      |                      |
|------|----------------------|
| H302 | Harmful if swallowed |
|------|----------------------|

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| Full text of hazard classes and H-statements |   |
|--|---|
| H312   | Harmful in contact with skin                    |
| H315   | Causes skin irritation                          |
| H317   | May cause an allergic skin reaction             |
| H319   | Causes serious eye irritation                   |
| H330   | Fatal if inhaled                                |
| H332   | Harmful if inhaled                              |
| 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.