

A Meridian Adhesives Group Company

# **EPO-TEK® 730-110 PART A**

# Safety Data Sheet

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

Issue date: 5/16/2022 Version: 1.0

# **SECTION 1: Identification**

### 1.1. Identification

Product form Mixture

Product name EPO-TEK® 730-110 PART A

#### 1.2. Recommended use 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

### 1.3. Supplier

www.epotek.com

Epoxy Technology, Inc. 14 Fortune Drive Billerica, MA, 01821 USA T 978-667-3805

#### 1.4. Emergency telephone number

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

# 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

Precautionary statements (GHS US)

## 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 : 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

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contact lenses, if present and easy to do. Continue rinsing.

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 eve 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)

Not applicable

# **SECTION 3: Composition/Information on ingredients**

# 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                               | Product identifier       | %       | GHS US classification   |
|------------------------------------|--------------------------|---------|---|
| Epoxy novolac resin*               | CAS-No.: Trade<br>Secret | 10 – 60 | Skin Sens. 1, H317<br>Aquatic Chronic 2, H411   |
| Bisphenol A diglycidyl ether resin | CAS-No.: 25085-99-8      | 30 – 60 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411  |
| Reactive diluent*                  | CAS-No.: Trade<br>Secret | 10 – 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<br>Aquatic Chronic 3, H412 |
| Reactive diluent*                  | CAS-No.: Trade<br>Secret | 1 – 5   | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318<br>STOT SE 3, H336<br>Aquatic Chronic 3, H412   |

<sup>\*</sup>Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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 first aid measures

First-aid measures after inhalation
First-aid measures after skin contact

- : Remove person to fresh air and keep comfortable for breathing.
- : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

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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.

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

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

### 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.

### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

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

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

#### 6.1.1. For non-emergency personnel

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".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

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. Avoid contact with skin and eyes. Wear personal

protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.

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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

Storage conditions : Store in a well-ventilated place. Keep cool.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### **EPO-TEK® 730-110 PART A**

No additional information available

### Bisphenol A diglycidyl ether resin (25085-99-8)

No additional information available

#### Reactive diluent

No additional information available

### **Epoxy novolac resin**

No additional information available

#### **Reactive diluent**

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

## Hand protection:

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

#### Eye protection:

Safety glasses

# Skin and body protection:

Wear suitable protective clothing

# Respiratory protection:

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 : clear
Odor : Mild odor

Odor threshold No data available No data available pΗ Melting point Not applicable : No data available Freezing point : No data available Boiling point Flash point : No data available Relative evaporation rate (butyl acetate=1) : 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 Viscosity, dynamic : No data available **Explosion limits** No data available Explosive properties No data available

#### 9.2. Other information

Oxidizing properties

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.

No data available

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# **SECTION 11: Toxicological information**

| 11.1. Information on toxicological effects                                |   |  |  |  |
|---|---|--|--|--|
| Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) | <ul><li>Not classified</li><li>Not classified</li><li>Not classified</li></ul>  |  |  |  |
| Bisphenol A diglycidyl ether resin (25085-99-8)                           |   |  |  |  |
| LD50 oral rat   | > 2000 mg/kg (Rat, Literature study, Oral)  |  |  |  |
| LD50 dermal rabbit  | > 5000 mg/kg (Rabbit, Literature study, Dermal)   |  |  |  |
| Reactive diluent  |   |  |  |  |
| ATE US (oral)   | 1120 mg/kg body weight  |  |  |  |
| ATE US (dermal)   | 1100 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   |  |  |  |
| Epoxy novolac resin   |   |  |  |  |
| LD50 oral rat   | > 10000 mg/kg   |  |  |  |
| LD50 dermal rabbit  | > 3000 mg/kg  |  |  |  |
| Reactive diluent  |   |  |  |  |
| LD50 oral rat   | 1582 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 8 day(s))  |  |  |  |
| LC50 Inhalation - Rat   | > 5.1 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (mixture of vapour and aerosol), 14 day(s))                  |  |  |  |
| ATE US (oral)   | 800 mg/kg body weight   |  |  |  |
| Skin corrosion/irritation   | : Causes skin irritation.   |  |  |  |
| Serious eye damage/irritation   | : Causes serious eye irritation.  |  |  |  |
| Respiratory or skin sensitization   | : May cause an allergic skin reaction.  |  |  |  |
| Germ cell mutagenicity  | : Not classified  |  |  |  |
| Carcinogenicity   | : Not classified  |  |  |  |
| Reactive diluent  |   |  |  |  |
| NOAEL (chronic,oral,animal/male,2 years)                                  | 225 mg/kg body weight Animal: rat, Animal sex: male, Guideline: other:NTP Protocol, Remarks on results: other:Effect type: carcinogenicity (migrated information)   |  |  |  |
| NOAEL (chronic,oral,animal/female,2 years)                                | 450 mg/kg body weight Animal: rat, Animal sex: female, Guideline: other:NTP Protocol, Remarks on results: other:Effect type: carcinogenicity (migrated information) |  |  |  |
|   |   |  |  |  |

| Reactive diluent     |                                    |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |

3 - Not classifiable

: Not classified

: Not classified

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available

IARC group

Reproductive toxicity STOT-single exposure

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

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Symptoms/effects after eye contact : Eye irritation.

# SECTION 12: Ecological information

# 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

| Reactive diluent     |   |
|----------------------|---|
| LC50 - Fish [1]      | 13 mg/l   |
| NOEC chronic algae   | 29 mg/l   |
| Reactive diluent     |   |
| LC50 - Fish [1]      | 56 mg/l (Equivalent or similar to OECD 203, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Nominal concentration) |
| EC50 - Crustacea [1] | > 500 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)                             |
| ErC50 algae          | > 1000 mg/l (DIN 38412-9, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Estimated value)                     |

# 12.2. Persistence and degradability

| Bisphenol A diglycidyl ether resin (25085-99-8 | 3)   |
|--|--|
| Persistence and degradability                  | Not readily biodegradable in water.                        |
| Reactive diluent                               |  |
| Persistence and degradability                  | Not readily biodegradable in water.                        |
| Reactive diluent                               |  |
| Persistence and degradability                  | Biodegradable in the soil. Readily biodegradable in water. |
| ThOD   | 1.67 g O /g substance                                      |

# 12.3. Bioaccumulative potential

| Bisphenol A diglycidyl ether resin (25085-99-8  | 3)  |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 3.242 (Literature)  |
| Bioaccumulative potential                       | Low potential for bioaccumulation (Log Kow < 4).  |
| Reactive diluent                                |   |
| Partition coefficient n-octanol/water (Log Pow) | -0.15   |
| Bioaccumulative potential                       | Not bioaccumulative.  |
| Reactive diluent                                |   |
| BCF - Other aquatic organisms [1]               | 3.162 l/kg (BCFBAF v3.00, Calculated value, Fresh weight)   |
| Partition coefficient n-octanol/water (Log Pow) | -0.566 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C) |
| Bioaccumulative potential                       | Not bioaccumulative.  |

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# 12.4. Mobility in soil

| Bisphenol A diglycidyl ether resin (25085-99-8             | 3)   |
|--|--|
| Ecology - soil   | Low potential for mobility in soil.                          |
| Reactive diluent   |  |
| Surface tension  | No data available (test not performed)                       |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.544 – 0.811 (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

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

DOT NA No : UN3082 UN-No. (TDG) : UN3082 UN-No. (IMDG) : 3082 UN-No. (IATA) : 3082

# 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Environmentally hazardous substances, liquid, n.o.s. (Specialty Resins)

Proper Shipping Name (TDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Specialty Resins)
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Specialty Resins)

Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s. (Specialty Resins)

# 14.3. Transport hazard class(es)

# DOT

Transport hazard class(es) (DOT) : 9

Hazard labels (DOT) : 9



**TDG** 

Transport hazard class(es) (TDG) : 9
Hazard labels (TDG) : 9

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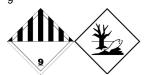
### **IMDG**

Transport hazard class(es) (IMDG) : 9
Hazard labels (IMDG) : 9



### IATA

Transport hazard class(es) (IATA) : 9
Hazard labels (IATA) : 9



# 14.4. Packing group

Packing group (DOT) : III
Packing group (TDG) : III
Packing group (IMDG) : III
Packing group (IATA) : III

# 14.5. Environmental hazards

Dangerous for the environment : Yes Marine pollutant : Yes



Other information : No supplementary information available.

# 14.6. Special precautions for user

DOT

UN-No.(DOT) : UN3082

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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.

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.

173 - An appropriate generic entry may be used for this material.

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.

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).

T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

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. 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 : No limit

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

**DOT Vessel Stowage Location** 

: No limit

: 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 hazard or hazards 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) of Part 3 (Documentation). 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) of Part 4 (Dangerous Goods Safety Marks).

  (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:
  - (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S;
  - (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S;
- (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S;
- (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or
- (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.
- (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment:
- (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or
- (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 handled, offered for transport or transported as UN3077 if there is no visible liquid when the dangerous goods are loaded into a means containment and during transport.
- (2) These Regulations, except for Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases) and Part 2 (Classification), do not apply to the handling, offering for transport or transporting 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 accidental 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

#### **IMDG**

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

#### **IATA**

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

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

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

# 15.2. International regulations

#### **CANADA**

### Bisphenol A diglycidyl ether resin (25085-99-8)

Listed on the Canadian DSL (Domestic Substances List)

#### **Reactive diluent**

Listed on the Canadian DSL (Domestic Substances List)

#### **Epoxy novolac resin**

Listed on the Canadian DSL (Domestic Substances List)

## **Reactive diluent**

Listed on the Canadian DSL (Domestic Substances List)

# **EU-Regulations**

No additional information available

### **National regulations**

#### Bisphenol A diglycidyl ether resin (25085-99-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

## **Epoxy novolac resin**

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### **Reactive diluent**

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**

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| Full text of H | phrases   |
|----------------|---|
| H302           | Harmful if swallowed                              |
| H312           | Harmful in contact with skin                      |
| H315           | Causes skin irritation                            |
| H317           | May cause an allergic skin reaction               |
| H318           | Causes serious eye damage                         |
| H319           | Causes serious eye irritation                     |
| H332           | Harmful if inhaled                                |
| H336           | May cause drowsiness or dizziness                 |
| H411           | Toxic to aquatic life with long lasting effects   |
| H412           | Harmful 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.



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A Meridian Adhesives Group Company according to Issue date: 5

# **SECTION 1: Identification**

### 1.1. Identification

Product form : Mixture

Product name : EPO-TEK® 730-110 PART B

#### 1.2. Recommended use 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

### 1.3. Supplier

www.epotek.com

Epoxy Technology, Inc. 14 Fortune Drive Billerica, MA, 01821 USA T 978-667-3805

#### 1.4. Emergency telephone number

Emergency number : ChemTel: +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 1 H318 Causes serious eye damage

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

Precautionary statements (GHS US)

## 2.2. GHS Label elements, including precautionary statements

#### **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

H411 - Toxic to aquatic life with long lasting effects
: 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

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contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a poison center or doctor.

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. 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)

Not applicable

# **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name             | Product identifier       | %     | GHS US classification   |
|------------------|--------------------------|-------|---|
| Polyamide resin* | CAS-No.: Trade<br>Secret | ≥ 60  | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Chronic 2, H411           |
| Curing agent*    | CAS-No.: Trade<br>Secret | 1 – 5 | Acute Tox. 4 (Dermal), H312<br>Skin Corr. 1A, H314<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412 |

<sup>\*</sup>Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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 first aid measures

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.

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

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

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# 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.

#### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

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

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

#### 6.1.1. For non-emergency personnel

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".

## 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

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. 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

out of the workplace. Do not eat, drink or smoke when using this product. Always wash ha after handling the product.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

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## **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

#### **EPO-TEK® 730-110 PART B**

No additional information available

#### Polyamide resin

No additional information available

#### **Curing agent**

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

#### Hand protection:

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

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

## Personal protective equipment symbol(s):







### **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : yellowish
Odor : Mild odor

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 Relative evaporation rate (butyl acetate=1) : No data available

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Flammability (solid, gas) : Not applicable. Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : No data available : No data available Solubility Partition coefficient n-octanol/water (Log Pow) : No data available No data available Auto-ignition temperature Decomposition temperature No data available No data available Viscosity, kinematic Viscosity, dynamic No data available No data available **Explosion limits** 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.

# **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

| Polyamide resin |  |
|-----------------|--|
| LD50 oral rat   | > 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral) |
| LD50 dermal rat | > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)           |

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| Curing agent                        |   |
|-------------------------------------|---|
| LD50 oral rat                       | 1716 mg/kg body weight (BASF test, Rat, Experimental value, Oral)   |
| LD50 dermal rabbit                  | 1465 mg/kg body weight (BASF test, Rabbit, Experimental value, Dermal)  |
| ATE US (oral)                       | 1716 mg/kg body weight  |
| ATE US (dermal)                     | 550 mg/kg body weight   |
| Skin corrosion/irritation           | : Causes skin irritation.   |
| Serious eye damage/irritation       | : Causes serious eye damage.  |
| Respiratory or skin sensitization   | : May cause an allergic skin reaction.  |
| Germ cell mutagenicity              | : Not classified  |
| Carcinogenicity                     | : Not classified  |
| Reproductive toxicity               | : Not classified  |
| STOT-single exposure                | : Not classified  |
| STOT-repeated exposure              | : Not classified  |
| Polyamide resin                     |   |
| NOAEL (oral,rat,90 days)            | 1000 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  |
| Viscosity, kinematic                | : No data available   |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction.  |
| Symptoms/effects after eye contact  | : Serious damage to eyes.   |

# SECTION 12: Ecological information

| 12 1 | To | vic | ·itv |
|------|----|-----|------|

Ecology - general : Toxic to aquatic life with long lasting effects.

| Loology - general .  | Toxic to aquatic life with long lasting chects.   |
|----------------------|---|
| Polyamide resin      |   |
| LC50 - Fish [1]      | 7.07 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)          |
| EC50 - Crustacea [1] | 7.07 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| ErC50 algae          | 4.34 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Experimental value, GLP)     |
| Curing agent         |   |
| LC50 - Fish [1]      | 495 mg/l (96 h, Pimephales promelas, Fresh water, Literature study)   |
| EC50 - Crustacea [1] | 31.1 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Literature study)  |

# 12.2. Persistence and degradability

| Polyamide resin               |                                     |
|-------------------------------|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |
| Curing agent                  |                                     |
| Persistence and degradability | Not readily biodegradable in water. |

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# 12.3. Bioaccumulative potential

| Polyamide resin                                 |   |  |
|---|---|--|
| Partition coefficient n-octanol/water (Log Pow) | 10.34 (Calculated)                                |  |
| Bioaccumulative potential                       | High potential for bioaccumulation (Log Kow > 5). |  |
| Curing agent                                    |   |  |
| Partition coefficient n-octanol/water (Log Pow) | -2.65 (Estimated value, KOWWIN)                   |  |
| Bioaccumulative potential                       | Not bioaccumulative.                              |  |

# 12.4. Mobility in soil

| Polyamide resin  |   |
|--|---|
| Surface tension  | 64 mN/m (0.15 g/l, EU Method A.5: Surface tension)    |
| Ecology - soil   | No (test)data on mobility of the substance available. |
| Curing agent   |   |
| Surface tension  | No data available in the literature                   |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.885 (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

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

DOT NA No : UN2735 UN-No. (TDG) : UN2735 UN-No. (IMDG) : 2735 UN-No. (IATA) : 2735

# 14.2. UN proper shipping name

Proper Shipping Name (DOT)

Proper Shipping Name (TDG)

Proper Shipping Name (TDG)

Proper Shipping Name (IMDG)

Proper Shipping Name (IMDG)

Proper Shipping Name (IATA)

: AMINES, LIQUID, CORROSIVE, N.O.S. (Polyamide resin)

: AMINES, LIQUID, CORROSIVE, N.O.S. (Polyamide resin)

### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : 8

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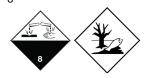
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Hazard labels (DOT)



TDG

Transport hazard class(es) (TDG) : 8
Hazard labels (TDG) : 8



**IMDG** 

Transport hazard class(es) (IMDG) : 8
Hazard labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8



# 14.4. Packing group

Packing group (DOT) : III
Packing group (TDG) : III
Packing group (IMDG) : III
Packing group (IATA) : III

# 14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes



Other information : No supplementary information available.

# 14.6. Special precautions for user

DOT

UN-No.(DOT) : UN2735

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DOT Special Provisions (49 CFR 172.102)

: 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).

T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)

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. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, 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) : 154
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Quantity Limitations Passenger aircraft/rail (49 : 5 L

CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49

CFR 175.75)

: 60 L

DOT Vessel Stowage Location

: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

DOT Vessel Stowage Other : 52 - Stow "separated from" acids

**TDG** 

UN-No. (TDG) : UN2735

**TDG Special Provisions** 

: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards 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) of Part 3 (Documentation). 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) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required

(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:

(a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S;

(b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S;

(c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S;

(d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or

(e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.

(3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment:

(a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS.

Explosive Limit and Limited Quantity Index : 5 L
Excepted quantities (TDG) : E1
Passenger Carrying Road Vehicle or Passenger : 5 L

Carrying Railway Vehicle Index

Tank instructions (IMDG)

Emergency Response Guide (ERG) Number : 153

**IMDG** 

Special provision (IMDG) : 223, 274
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03

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Tank special provisions (IMDG) : TP1, TP28

EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage) : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES

Stowage category (IMDG) : A

Properties and observations (IMDG) : Colourless to yellowish liquids or solutions with a pungent odour. Miscible with or soluble in

water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. Reacts violently with acids. Cause burns to skin, eyes and mucous membranes.

**IATA** 

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) Y841 PCA limited quantity max net quantity (IATA) 1L PCA packing instructions (IATA) 852 5L PCA max net quantity (IATA) CAO packing instructions (IATA) 856 : 60L CAO max net quantity (IATA) : A3, A803 Special provision (IATA) : 8L ERG code (IATA)

## 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

## 15.2. International regulations

#### **CANADA**

### Polyamide resin

Listed on the Canadian DSL (Domestic Substances List)

## **Curing agent**

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

### **National regulations**

### Polyamide resin

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### **Curing agent**

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

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| Component | State or local regulations  |
|-----------|---|
|           | U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S New York City - Right to Know Hazardous Substances List; U.S Pennsylvania - RTK (Right to Know) List |

# **SECTION 16: Other information**

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| Full text of H-phrases |   |
|------------------------|---|
| H312                   | Harmful 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                         |
| H411                   | Toxic to aquatic life with long lasting effects   |
| H412                   | Harmful 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.