

### Safety Data Sheet

A Meridian Adhesives Group Company

# according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 5/18/2022 Revision date: 5/25/2023 Supersedes: 5/18/2022 Version: 2.0

# **SECTION 1: Identification**

#### 1.1. Identification Product form : Mixture Product name EPO-TEK® MED-301-2 PMF SYRINGE : 1.2. Recommended use and restrictions on use Use of the substance/mixture : Adhesives Adhesives Recommended use Restrictions on use : Not to be used for any purpose other than the one the product was designed for 1.3. Supplier Manufacturer Epoxy Technology, Inc. 14 Fortune Drive Billerica, MA 01821 USA T 978-667-3805 - F 978-663-9782 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 1C	H314	Causes severe skin burns and eye damage
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 – Acute Hazard Category 2	H401	Toxic to aquatic life
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) Hazard statements (GHS US)

Precautionary statements (GHS US)



H401 - Toxic to aquatic life

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- H411 Toxic to aquatic life with long lasting effects
- : P260 Do not breathe dust/fume/gas/mist/vapors/spray.
  - 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.

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P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting. P302+P352 - If on skin: Wash with plenty of water. 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. P310 - Immediately call a poison center or doctor. P321 - Specific treatment (see supplemental first aid instruction on this label). P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse. P391 - Collect spillage. P405 - Store locked up. 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
Bisphenol A diglycidyl ether resin	CAS-No.: 1675-54-3	≥ 30	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Polyoxypropylenediamine	CAS-No.: 9046-10-0	10 – 30	Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412

#### Comments

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

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

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SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact	<ul> <li>Call a physician immediately.</li> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.</li> </ul>

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First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.</li> <li>Rinse mouth. Do not induce vomiting. Call a physician immediately.</li> </ul>				
4.2. Most important symptoms and effects (acute and delayed)					
Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	<ul><li>Burns. May cause an allergic skin reaction.</li><li>Serious damage to eyes.</li><li>Burns.</li></ul>				

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures					
5.1. Suitable (and unsuitable) extinguishing	j 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. Do not breathe 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 contain	ment and cleaning up						
For containment Methods for cleaning up	: Collect spillage. : Take up liquid spill into absorbent material.						

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Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Other information

For further information refer to section 13.

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SECTION 7: Handling and storage						
7.1. Precautions for safe handling						
Precautions for safe handling Hygiene measures	<ul> <li>Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapors/spray. Wear personal protective equipment.</li> <li>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.</li> </ul>					
7.2. Conditions for safe storage, including	any incompatibilities					
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.					
SECTION 8: Exposure controls/persor	nal protection					
8.1. Control parameters						
EPO-TEK® MED-301-2 PMF SYRINGE						
No additional information available						
Polyoxypropylenediamine (9046-10-0)						
No additional information available						
Bisphenol A diglycidyl ether resin (1675-5	54-3)					
No additional information available						
8.2. Appropriate engineering controls						
Appropriate engineering controls Environmental exposure controls	<ul><li>Ensure good ventilation of the work station.</li><li>Avoid release to the environment.</li></ul>					
8.3. Individual protection measures/Person	nal protective equipment					
Hand protection:						
a decision that depends not only on the type of ma	ation. Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves. Choosing the proper glove is aterial, but also on other quality features, which differ for each manufacturer. Refer to manufacturer's se 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 res	piratory equipment					



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

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

Physical state	· Liquid
Physical state Color	: Liquid : clear
Odor	: Mild odor
Odor threshold	: No data available
рН	: 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	: 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
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	ation
11.1. Information on toxicological effect	cts
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Polyoxypropylenediamine (9046-10-0)	
LD50 oral rat	2885 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)
LD50 dermal rabbit	2980 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal)
LC50 Inhalation - Rat	> 0.74 mg/l air (Equivalent or similar to OECD 403, 8 h, Rat, Male / female, Experimental value, Inhalation (vapours))
ATE US (oral)	2885 mg/kg body weight
ATE US (dermal)	2980 mg/kg body weight
Bisphenol A diglycidyl ether resin (16	75-54-3)
LD50 oral rat	> 2000 mg/kg body weight (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, Rat, Male / female, Experimental value, Dermal, 14 day(s))
ATE US (oral)	22736 mg/kg body weight
ATE US (dermal)	23200 mg/kg body weight
Skin corrosion/irritation	: Causes severe skin burns.
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
Bisphenol A diglycidyl ether resin (16	75-54-3)
IARC group	3 - Not classifiable
Reproductive toxicity	Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after skin contact	: Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

# **SECTION 12: Ecological information**

12.1. Toxicity	
Ecology - general :	Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Polyoxypropylenediamine (9046-10-0)	
LC50 - Fish [1]	772.14 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Cyprinodon variegatus, Static system, Salt water, Experimental value, GLP)

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Polyoxypropylenediamine (9046-10-0)				
EC50 - Crustacea [1]	80 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)			
ErC50 algae	15 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)			
Bisphenol A diglycidyl ether resin (1675-54-3)				
EC50 - Crustacea [1]	1.7 mg/l			
12.2. Persistence and degradability				
Polyoxypropylenediamine (9046-10-0)				
Persistence and degradability	Not readily biodegradable in water.			
Bisphenol A diglycidyl ether resin (1675-54-3)				
Persistence and degradability	Not readily biodegradable in water.			
12.3. Bioaccumulative potential				
Polyoxypropylenediamine (9046-10-0)				
Partition coefficient n-octanol/water (Log Pow)	1.34 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)			
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).			
Bisphenol A diglycidyl ether resin (1675-54-3)				
BCF - Other aquatic organisms [1]	31 (QSAR, Fresh weight)			
Partition coefficient n-octanol/water (Log Pow)	≥ 2.918 (Experimental value, EU Method A.8: Partition Coefficient, 25 °C)			
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).			
12.4. Mobility in soil				
Polyoxypropylenediamine (9046-10-0)				
Surface tension	Data waiving			
Ecology - soil	No (test)data on mobility of the substance available.			
Bisphenol A diglycidyl ether resin (1675-54-3)				
Surface tension	58.7 – 58.9 mN/m (20 °C, EU Method A.5: Surface tension)			
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.65 (log Koc, SRC PCKOCWIN v2.0, QSAR)			
Ecology - soil	Low potential for adsorption in soil.			
12.5. Other adverse effects				

No additional information available

SECTION 13: Disposal consideration	IS					
13.1. Disposal methods						

Waste treatment methods

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

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### **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)	: Polyamines, liquid, corrosive, n.o.s. (Polyoxypropylenediamine)
Proper Shipping Name (TDG)	: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine)
Proper Shipping Name (IMDG)	: POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Polyoxypropylenediamine)
Proper Shipping Name (IATA)	: Amines, liquid, corrosive, n.o.s. (Polyoxypropylenediamine)

### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) Hazard labels (DOT)



### TDG

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



### IMDG

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



### ΙΑΤΑ

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



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# 14.4. Packing group

Packing group (DOT) Packing group (TDG) Packing group (IMDG)

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Packing group (IATA)	: III
14.5. Environmental hazards	
Dangerous for the environment Marine pollutant	: Yes : Yes
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT UN-No.(DOT) DOT Special Provisions (49 CFR 172.102)	<ul> <li>: UN2735</li> <li>: 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).</li> <li>T7 - 4 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49	: 154 : 203 : 241
CFR 175.75) DOT Vessel Stowage Location DOT Vessel Stowage Other	<ul> <li>A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.</li> <li>52 - Stow "separated from" acids</li> </ul>
TDG UN-No. (TDG)	: UN2735

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TDG Special Provisions	<ul> <li>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).</li> <li>(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:</li> <li>(a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S;</li> <li>(b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S;</li> <li>(c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S;</li> <li>(d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or</li> <li>(e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.</li> <li>(3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment or since a state of the technical name:</li> <li>(a) UN3248, MEDICINE, LIQUID, TOXIC, N.O.S.</li> <li>(b) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.</li> <li>(c) UN3249, MEDICINE, SOLID, TOXIC, N.O.S.</li> <li>(d) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment:</li> <li>(a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or</li> </ul>
	(b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS.
Explosive Limit and Limited Quantity Index Excepted quantities (TDG)	: 5L : E1
Passenger Carrying Road Vehicle or Passenger	: 5L
Carrying Railway Vehicle Index	
Emergency Response Guide (ERG) Number	: 153
IMDG	
Special provision (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG) IBC packing instructions (IMDG)	: P001, LP01 : IBC03
Tank instructions (IMDG)	: T7
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	. E1
PCA Excepted quantities (IATA) PCA Limited quantities (IATA)	: E1
PCA limited quantities (IATA) PCA limited quantity max net quantity (IATA)	: Y841 : 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provision (IATA)	: A3, A803
ERG code (IATA)	: 8L

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

Not applicable

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### **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

Polyoxypropylenediamine (9046-10-0)

Listed on the Canadian DSL (Domestic Substances List)

Bisphenol A diglycidyl ether resin (1675-54-3)	
Listed on the Canadian DSL (Domestic Substances List)	

#### **EU-Regulations**

No additional information available

#### **National regulations**

Polyoxypropylenediamine (9046-10-0)

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

Component	State or local regulations
Bisphenol A diglycidyl ether resin(1675-54-3)	U.S New York City - Right to Know Hazardous Substances List

### **SECTION 16: Other information**

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Full text of H-phrases	
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

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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.