

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: 1/18/2023 Version: 1.0

SECTION 1: Identification 1.1. Identification Product form : Mixture Product name EPO-TEK® M10-D 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, 01821 USA T 978-667-3805 - F 978-663-9782 www.epotek.com 1.4. Emergency telephone number : VelocityEHS: +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 Reproductive toxicity Category 2 H361 Suspected of damaging fertility or the unborn child Hazardous to the aquatic environment - Acute Hazard Category 1 H400 Very 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)



: H315 - Causes skin irritation

- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H361 Suspected of damaging fertility or the unborn child
- H400 Very toxic to aquatic life
- H411 Toxic to aquatic life with long lasting effects
- : P201 Obtain special instructions before use.
 - P202 Do not handle until all safety precautions have been read and understood.
 - P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 - P264 Wash hands, forearms and face thoroughly after handling.

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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. P308+P313 - If exposed or concerned: Get medical advice/attention. 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. 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
Epoxy Resin*	CAS-No.: Trade Secret	30 – 60	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Boron trichloride amine complex	CAS-No.: 34762-90-8	1 – 10	Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

*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

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 massures after ave contact	Get medical advice/attention.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs:
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.

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4.2. Most important symptoms and effects (acute and delayed)		
Symptoms/effects after skin contact Symptoms/effects after eye contact	Irritation. May cause an allergic skin reaction.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 equ	ipment 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	nt and cleaning up
For containment	: Collect spillage.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

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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 locked up. Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure contro	ls/personal protection
8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering con	trols
Appropriate engineering controls Environmental exposure controls	Ensure good ventilation of the work station.Avoid release to the environment.
8.3. Individual protection measur	res/Personal protective equipment
Hand protection:	
a decision that depends not only on the	ical penetration. Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves. Choosing the proper glove is e type of material, but also on other quality features, which differ for each manufacturer. Refer to manufacturer's 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:	
	respiratory protection.



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Color Odor Odor threshold pH Melting point Freezing point Boiling point	 Liquid tan Mild odor No data available

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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.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (dermal)	Not classified Not classified Not classified	
Boron trichloride amine complex (34762-90-8)		
LD50 oral rat	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
Epoxy Resin		
LD50 oral rat	> 2000 mg/kg (Rat, Oral)	
LD50 dermal rat	> 2000 mg/kg (Rat, Dermal)	
Skin corrosion/irritation :	Causes skin irritation.	
Serious eye damage/irritation :	Causes serious eye irritation.	

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Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure STOT-repeated exposure	 May cause an allergic skin reaction. Not classified Not classified Suspected of damaging fertility or the unborn child. Not classified Not classified Not classified
Boron trichloride amine complex (34762-9	90-8)
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	: Eye irritation.

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.	
Boron trichloride amine complex (34762-90-8)		
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Cyprinus carpio	
EC50 - Crustacea [1]	> 0.75 mg/l Test organisms (species): Daphnia magna	
12.2. Persistence and degradability		
Epoxy Resin		
Persistence and degradability	Biodegradability in soil: no data available. Not readily biodegradable in water.	
12.3. Bioaccumulative potential		
Epoxy Resin		
Bioaccumulative potential	Bioaccumable.	
12.4. Mobility in soil		
Epoxy Resin		
Ecology - soil	Adsorbs into the soil.	
12.5. Other adverse effects		
No additional information available		

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.

In accordance with DOT / TDG / IMDG / IATA

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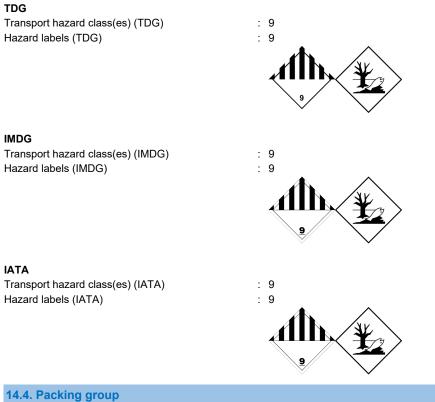
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14.1. UN number	
DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	: UN3082 : UN3082 : 3082 : 3082
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG)	 Environmentally hazardous substances, liquid, n.o.s. (Boron trichloride amine complex) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Boron trichloride amine complex) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Boron trichloride amine
Proper Shipping Name (IATA)	complex) Environmentally hazardous substance, liquid, n.o.s. (Boron trichloride amine complex)
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT)	: 9

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



: 9



: 111 Packing group (DOT) : 111 Packing group (TDG) Packing group (IMDG) : 111 : 111 Packing group (IATA)

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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) DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Packaging 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 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
v	passenger vessel.
TDG UN-No. (TDG)	: UN3082

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: 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
(a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or
(b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS,99 - (1) Mixtures of solids that are not dangerous goods and liguids or solids that are UN3077, ENVIRONMENTALLY
HAZARDOUS SUBSTANCE, SOLID, N.O.S, or UN3082, ENVIRONMENTALLY
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.
: 5L
: E1
: 171
: 274, 335, 969
274, 335, 969 : 5L
: E1
: LP01, P001
: PP1
: IBC03
: T4
: TP1, TP29
: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
: A
: E1
: Y964
: 30kgG
: 30kgG : 964
: 30kgG

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Special provision (IATA): A97, A158, A197, A215ERG 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.

Ethylbenzene

CAS-No. 100-41-4

15.2. International regulations

CANADA

Boron trichloride amine complex (34762-90-8)

Listed on the Canadian DSL (Domestic Substances List)

Epoxy Resin Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

MARNING:

This product can expose you to Ethylbenzene, which is known to the State of California to cause cancer, and Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

< 1%

SECTION 16: Other information

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Full text of H-phrases	
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

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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.