

Manufacturer:

Epoxy Technology

Product Name: EPO-TEK[®] 323LP High Temperature Epoxy, Heat Cure (4g)

Manufacturer Part Number: ET323LP-4G

Click here for more details on the EPO-TEK® 323LP High Temperature Epoxy, Heat Cure (4g)

EPOXY EPO-TEK® 323LP PART B Safety Data Sheet TECHNOLOGY according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 3/23/2022 Revision date: 12/30/2022 Supersedes: 3/23/2022 Version: 2.0 A Meridian Adhesives Group Company **SECTION 1: Identification** 1.1. Identification Product form : Mixture : EPO-TEK® 323LP PART B Product name 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 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 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 H301 Acute toxicity (oral) Category 3 Toxic if swallowed 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 Reproductive toxicity Category 1B H360 May damage fertility or the unborn child Specific target organ toxicity - Single exposure, Category 3, H335 May cause respiratory irritation Respiratory tract irritation 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) Danger Hazard statements (GHS US) H301 - Toxic if swallowed H315 - Causes skin irritation H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H335 - May cause respiratory irritation H360 - May damage fertility or the unborn child Precautionary statements (GHS US) : P201 - Obtain special instructions before use P202 - Do not handle until all safety precautions have been read and understood.

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	P264 - Wash hands P270 - Do not eat, c P271 - Use only out P272 - Contaminate P280 - Wear protec P301+P310 - If swa P302+P352 - If on s P304+P340 - If inhe P305+P351+P338 - contact lenses, if pr P308+P313 - If exp P310 - Immediately P312 - Call a poison P321 - Specific trea P330 - Rinse mouth P332+P313 - If skin P332+P313 - If skin P362+P364 - Take P363 - Wash contar P405 - Store locked P501 - Dispose of c	 IF IN EYES: Rinse caulesent and easy to do. Cosed or concerned: Get call a poison center or concerned: Get call a poison center or concerned; Get was truent (see supplementan). irritation occurs: Get main irritation or rash occurs off contaminated clothing before in a well-ventilated place up. 	roughly after har ng this product, ated area. It be allowed out obthing/eye proter a poison center i water. fresh air and kee ioously with wate ontinue rinsing. medical advice/ loctor. feel unwell. Il first aid instruc- edical advice/ atd advice/ cost medical ad g and wash it be reuse. e. Keep containe ardous or specia	tof the workplace. ction/face protection. or doctor. ap comfortable for breathing. r for several minutes. Remove attention. tion on this label). ention. tyice/attention. fore reuse. er tightly closed. al waste collection point, in
2.3. Other hazards which do not result in cl	assification			
Other hazards which do not result in classification	: Harmful dust may b	e released during cutting	g, milling or grind	ding process.
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
SECTION 3: Composition/Information of	on ingredients			
	, , , , , , , , , , , , , , , , , , ,			
3.1. Substances				
Not applicable				
3.2. Mixtures				
Name		Product identifier	%	GHS US classification
Substituted imidazole*		CAS-No.: Trade Secret	≥ 30	Acute Tox. 4 (Oral), H302
Substituted imidazole*		CAS-No.: Trade Secret	1 – 60	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
1H-Imidazole, 2-methyl-		CAS-No.: 693-98-1	< 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Repr. 1B, H360
Reactive diluent*		CAS-No.: Trade	< 1	Acute Tox. 4 (Oral), H302

Secret

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Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317



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*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 general First-aid measures after inhalation	Call a physician immediately. Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact First-aid measures after eye contact	 Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a obvisician immediately.
First-aid measures after ingestion	: Rinse mouth. Call a physician immediately.
4.2. Most important symptoms and effects	s (acute and delayed)
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	: May cause respiratory irritation. : Irritation. May cause an allergic skin reaction. : Serious damage to eyes.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

6.1.1. For non-emergency personnel	
Emergency procedures	 Only qualified personnel equipped with suitable protective equipment may intervene. 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	

Learn More

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

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6.3. Methods and material for containme	ent and cleaning up
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 Hygiene measures	 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Separate working clothes from town clothes. Launder separately. 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, includi	ng any incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
	sonal protection
8.1. Control parameters No additional information available	
No additional information available	: Ensure good ventilation of the work station. : Avoid release to the environment.
No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls	: Ensure good ventilation of the work station. : Avoid release to the environment.
No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls	: Ensure good ventilation of the work station. : Avoid release to the environment.
No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures/Pers Hand protection: Wear suitable gloves resistant to chemical pene a decision that depends not only on the type of	: Ensure good ventilation of the work station. : Avoid release to the environment.
No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures/Pers Hand protection: Wear suitable gloves resistant to chemical pene a decision that depends not only on the type of	Ensure good ventilation of the work station. Avoid release to the environment. sonal protective equipment etration. Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves. Choosing the proper glove is material, but also on other quality features, which differ for each manufacturer. Refer to manufacturer's
No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures/Pers Hand protection: Wear suitable gloves resistant to chemical pene a decision that depends not only on the type of information. Gloves must be replaced after each	Ensure good ventilation of the work station. Avoid release to the environment. sonal protective equipment etration. Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves. Choosing the proper glove is material, but also on other quality features, which differ for each manufacturer. Refer to manufacturer's
No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures/Pers Hand protection: Wear suitable gloves resistant to chemical pene a decision that depends not only on the type of information. Gloves must be replaced after each Eye protection:	Ensure good ventilation of the work station. Avoid release to the environment. sonal protective equipment etration. Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves. Choosing the proper glove is material, but also on other quality features, which differ for each manufacturer. Refer to manufacturer's
No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures/Pers Hand protection: Wear suitable gloves resistant to chemical pene a decision that depends not only on the type of information. Gloves must be replaced after each Eye protection: Safety glasses	Ensure good ventilation of the work station. Avoid release to the environment. sonal protective equipment etration. Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves. Choosing the proper glove is material, but also on other quality features, which differ for each manufacturer. Refer to manufacturer's
No additional information available 8.2. Appropriate engineering controls Appropriate engineering controls Environmental exposure controls 8.3. Individual protection measures/Pers Hand protection: Wear suitable gloves resistant to chemical pene a decision that depends not only on the type of information. Gloves must be replaced after each Eye protection: Safety glasses Skin and body protection:	Ensure good ventilation of the work station. Avoid release to the environment. sonal protective equipment etration. Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves. Choosing the proper glove is material, but also on other quality features, which differ for each manufacturer. Refer to manufacturer's

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Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state : Liquid Color amber Odor : Mild odor Odor threshold : No data available : No data available pН Melting point : No data available Freezing point : No data available : No data available Boiling point Flash point : No data available Relative evaporation rate (butyl acetate=1) : No data available Flammability : Not applicable. : No data available Vapor pressure 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

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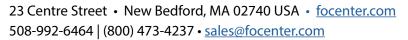
10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11.1. Information on toxicological effect	S
Acute toxicity (oral)	: Toxic if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
EPO-TEK® 323LP PART B	
ATE US (oral)	177.522 mg/kg body weight
Substituted imidazole	
ATE US (oral)	100 mg/kg body weight
Substituted imidazole	
ATE US (oral)	500 mg/kg body weight
1H-Imidazole, 2-methyl- (693-98-1)	
LD50 oral rat	1500 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Ora 7 day(s))
LD50 dermal rat	> 2000 mg/kg (Rat, Dermal)
ATE US (oral)	1400 mg/kg body weight
Reactive diluent	
ATE US (oral)	1120 mg/kg body weight
ATE US (dermal)	2150 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
kin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Serm cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
1H-Imidazole, 2-methyl- (693-98-1)	
NOAEL (chronic,oral,animal/male,2 years)	13 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:Effect type carcinogenicity (migrated information)
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: May damage fertility or the unborn child.
TOT-single exposure	: May cause respiratory irritation.
Substituted imidazole	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified

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Viscosity, kinematic	: No data available
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.

12.1. Toxicity	
	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
1H-Imidazole, 2-methyl- (693-98-1)	
LC50 - Fish [1]	190 mg/l (DIN 38412: German standard methods for the examination of water, waste water a sludge, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value)
EC50 - Crustacea [1]	225.31 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experiment value)
ErC50 algae	256.3 mg/l (DIN 38412-9, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
Reactive diluent	1
LC50 - Fish [1]	13 mg/l
NOEC chronic algae	29 mg/l
12.2. Persistence and degradability	•
1H-Imidazole, 2-methyl- (693-98-1)	
Persistence and degradability	Readily biodegradable in water.
Reactive diluent	
Persistence and degradability	Not readily biodegradable in water.
12.3. Bioaccumulative potential	
1H-Imidazole, 2-methyl- (693-98-1)	
Partition coefficient n-octanol/water (Log Pow)	0.22 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Reactive diluent	
Partition coefficient n-octanol/water (Log Pow)	-0.15
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
1H-Imidazole, 2-methyl- (693-98-1)	
Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.94 (log Koc, Calculated value, pH = 7)

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12.5. Other adverse effects

No additional information available

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	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	Not applicable Not applicable Not applicable Not applicable
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT)	: Not applicable
TDG Transport hazard class(es) (TDG)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable
IATA Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	: Not applicable : Not applicable : Not applicable : Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT No data available	
TDG No data available	
IMDG No data available	

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IATA No data available

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

Substituted imidazole

Listed on the Canadian DSL (Domestic Substances List)

Substituted imidazole

Listed on the Canadian NDSL (Non-Domestic Substances List)

1H-Imidazole, 2-methyl- (693-98-1)

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

1H-Imidazole, 2-methyl- (693-98-1)

Listed on IARC (International Agency for Research on Cancer)

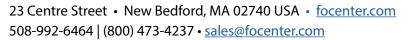
15.3. US State regulations

This product can expose you to 2-Methylimidazole, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information		
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date : 12/30/2022		
Full text of H-phra	ises	
H301	Toxic if swallowed	
H302	Harmful if swallowed	

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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
H332	Harmful if inhaled
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child

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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