

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 1/2/2025 Version: 1.0

Safety Data Sheet

A Meridian Adhesives Group Company

SECTION 1 Identification	
1.1. Product identifier	
Product form Product name	: Mixture : EPO-TEK® 354-2 PART A
1.2. Other means of identification	
No additional information available	
1.3. Recommended use of the chemical a	nd restrictions on use
Recommended use Restrictions on use	: Adhesives : Not to be used for any purpose other than the one the product was designed for
1.4. Supplier's details	
Epoxy Technology, Inc. 14 Fortune Drive Billerica, MA 01821 USA T 978-667-3805 - F 978-663-9782 www.epotek.com	
1.5. Emergency phone number	
Emergency number	: VelocityEHS: +1 (800) 255-3924, +1 (813) 248-0585
SECTION 2 Hazard Identification 2.1. Classification of the substance or mi	xture
GHS US classification	
Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Skin sensitization, Category 1 Hazardous to the aquatic environment — Chronic Full text of H statements : see section 16	H315Causes skin irritation.H319Causes serious eye irritation.H317May cause an allergic skin reaction.Hazard, Category 2H411Toxic to aquatic life with long lasting effects.
2.2. Label elements	
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US)	 Warning H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (GHS US)	 P261 - Avoid breathing dust, fume, gas, mist, vapours, spray. P264 Wash bands, forearms and face theroughly after bandling.

- 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.

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

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

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

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Epoxy phenol novolac resin	CAS-No.: 28064-14-4	≥60	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Aquatic Chronic 2, H411
Bisphenol A diglycidyl ether resin	CAS-No.: 25068-38-6	< 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411

Comments

: Components not listed are either non-hazardous or are below reportable limits.

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

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

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures	
First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.

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4.2. Most important symptoms/effects, acute and delayed		
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 None under normal conditions. Irritation. May cause an allergic skin reaction. Eye irritation. None under normal conditions. 	
4.3. Indication of immediate medical atter	ntion and special treatment needed, if necessary	
Other medical advice or treatment	: Treat symptomatically.	
SECTION 5: Fire-fighting measures		

5.1. Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream.	
5.2. Specific hazards arising from the chem	nical	
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 No fire hazard. No direct explosion hazard. Toxic fumes may be released. 	
5.3. Special protective equipment and precautions for fire-fighters		
Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6 Accidental release measures		
6.1. Personal precautions, protective equ	uipment and emergency procedures	
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.	
For non-emergency personnel		
Protective equipment	: Wear recommended personal protective equipment.	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.	
For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.	
Environmental precautions	: Avoid release to the environment.	
6.2. Methods and materials for containment and cleaning up		
For containment	: Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.	
Methods for cleaning up	: Take up liquid spill into absorbent material.	
Other information	: Dispose of materials or solid residues at an authorized site.	

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 Additional hazards when processed	 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. 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. Not expected to present a significant hazard under anticipated conditions of normal use.
7.2. Conditions for safe storage, including i	
Technical measures Storage conditions Packaging materials	 Keep in a cool, well-ventilated place away from heat. Keep cool. Protect from sunlight. Store always product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls	
Appropriate engineering controls Environmental exposure controls	Ensure good ventilation of the work station.Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Wear recommended 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

Physical state	: Liquid
Color	: Clear
Odor	: Mild odour
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 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
Explosion limits	: No data available
Particle characteristics	: No data available
Epoxy phenol novolac resin	
Particle characteristics	No data available

Bisphenol A diglycidyl ether resin Particle characteristics No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

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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11.1. Information on toxicological effects	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified Not classified Not classified
Bisphenol A diglycidyl ether resin (25068	3-38-6)
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
LD50 oral	11400 mg/kg
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
ATE US (oral)	11400 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Bisphenol A diglycidyl ether resin (25068	3-38-6)
рН	No data available in the literature
Serious eye damage/irritation	: Causes serious eye irritation.
Bisphenol A diglycidyl ether resin (25068	3-38-6)
рН	No data available in the literature
Germ cell mutagenicity Carcinogenicity Bisphenol A diglycidyl ether resin (25068	: Not classified
NOAEL (chronic,oral,animal/male,2 years)	15 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Guideline: EPA OPPTS 870.4300 (Combined Chronic Toxicity / Carcinogenicity), Guideline: other:MITI, Japanese ministry of international trade and industry, February 1998, Remarks on results: other:Effect type: toxicity (migrated information)
NOAEL (chronic,oral,animal/female,2 years)	100 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Guideline: EPA OPPTS 870.4300 (Combined Chronic Toxicity / Carcinogenicity), Guideline: other:MITI, Japanese ministry of international trade and industry, February 1998, Remarks on results: other:Effect type: toxicity (migrated information)
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Bisphenol A diglycidyl ether resin (25068	
NOAEL (oral,rat,90 days)	50 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: other:japanese MITI guidelines for toxicity testing of

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EPO-TEK® 354-2 PART A		
Viscosity, kinematic	No data available	
Epoxy phenol novolac resin (28064-14-4)		
Viscosity, kinematic	v, kinematic No data available	
Bisphenol A diglycidyl ether resin (25068-38-6)		
Viscosity, kinematic	No data available in the literature	
Symptoms/effects after skin contact	None under normal conditions. Irritation. May cause an allergic skin reaction. Eye irritation.	
	None under normal conditions.	

SECTION 12 Ecological information		
12.1. Ecotoxicity		
Hazardous to the aquatic environment, short-term : (acute)	Toxic to aquatic life with long lasting effects. Not classified Not classified	
Bisphenol A diglycidyl ether resin (25068-38-	6)	
LC50 - Fish [1]	1.3 mg/l (96 h, Pisces, Literature study)	
EC50 - Crustacea [1]	2 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)	
EC50 72h - Algae [1]	9.4 mg/l (EPA 660/3 - 75/009, Selenastrum capricornutum, Static system, Fresh water, Experimental value, Biomass)	
EC50 72h - Algae [2]	> 11 mg/l Test organisms (species): Scenedesmus capricornutum	
LOEC (chronic)	1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	0.3 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
12.2. Persistence and degradability		
EPO-TEK® 354-2 PART A		
Persistence and degradability	Not rapidly degradable	

Biodegradability in soil: no data available.		
Bisphenol A diglycidyl ether resin (25068-38-6)		
Not readily biodegradable in water.		

12.3. Bioaccumulative potential

Epoxy phenol novolac resin (28064-14-4)		
Bioaccumulative potential	No bioaccumulation data available.	
Bisphenol A diglycidyl ether resin (25068-38-6)		
Partition coefficient n-octanol/water (Log Pow)	3 (Estimated value, 25 °C)	

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Bisphenol A diglycidyl ether resin (25068-38-	6)		
Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).			
12.4. Mobility in soil			
Bisphenol A diglycidyl ether resin (25068-38-6)			
Surface tension	59 mN/m (20 °C, 0.09 g/l)		
Ecology - soil	No (test)data on mobility of the substance available.		
12.5. Other adverse effects			
	Not classified No		

SECTION 13 Disposal considerations	
Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA DOT TDG IMDG ΙΑΤΑ 14.1. UN number UN3082 UN3082 3082 3082 14.2. Proper Shipping Name ENVIRONMENTALLY ENVIRONMENTALLY Environmentally hazardous Environmentally hazardous substances, liquid, n.o.s. (Epoxy HAZARDOUS SUBSTANCE, HAZARDOUS SUBSTANCE. substance, liquid, n.o.s. (Epoxy Phenol Novolac) LIQUID, N.O.S. (Epoxy Phenol LIQUID, N.O.S. (Epoxy Phenol Phenol Novolac) Novolac) Novolac) 14.3. Transport hazard class(es) 9 9 9 9 14.4. Packing group Ш Ш Ш Ш 14.5. Environmental hazards Dangerous for the environment: Yes Marine pollutant: Yes No supplementary information available

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14.6. Transport in bulk

Not applicable

14.7. Special precautions for user	
DOT	
UN-No.(DOT)	: UN3082
DOT Special Provisions (49 CFR 172.102)	: 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.
	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)
	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	: No limit
CFR 175.75)	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
TDG	

UN-No. (TDG)

: UN3082

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TDG Special Provisions	 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3). (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, SOLID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d) UN3248, MEDICINE, LIQUID, TOXIC, N.O.S. (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (f) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (g) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN249, MEDICINE, SOLID, TOXIC, N.O.S. (j) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2900, 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, SOLID, N.O.S, or UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTAN
Explosive Limit and Limited Quantity Index	: 5 L
Excepted quantities (TDG)	: 5L : E1
Emergency Response Guide (ERG) Number	: 171
IMDG Special provision (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5L
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)	: 3-F - SPILLAGE SCHEDULE FOXIOL - WATER-SOLUBLE MARINE FOLLUTANTS : A
IATA	
Special provision (IATA)	: A97, A158, A197, A215
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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ERG code (IATA)

: 9L

SECTION 15 Regulatory information

15.1. 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

Epoxy phenol novolac resin (28064-14-4)

Listed on the Canadian DSL (Domestic Substances List)

Bisphenol A diglycidyl ether resin (25068-38-6)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. 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 hazard	classes and H-statements
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

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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.



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A Meridian Adhesives Group Company

SECTION 1 Identification	
1.1. Product identifier	
Product form Product name	: Mixture : EPO-TEK® 354-2 PART B
1.2. Other means of identification	
No additional information available	
1.3. Recommended use of the chemical a	nd restrictions on use
Recommended use Restrictions on use	: Adhesives : Not to be used for any purpose other than the one the product was designed for
1.4. Supplier's details	
Epoxy Technology, Inc. 14 Fortune Drive Billerica, MA 01821 USA T 978-667-3805 - F 978-663-9782 <u>www.epotek.com</u>	
1.5. Emergency phone number	
Emergency number	: VelocityEHS: +1 (800) 255-3924, +1 (813) 248-0585
SECTION 2 Hazard Identification	
2.1. Classification of the substance or mi	xture
GHS US classification Acute toxicity (oral), Category 4 Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 1 Full text of H statements : see section 16	H302Harmful if swallowed.H315Causes skin irritation.H318Causes serious eye damage.
2.2. Label elements	
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US)	 Danger H302 - Harmful if swallowed H315 - Causes skin irritation H318 - Causes serious eye damage
Precautionary statements (GHS US)	 P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves. P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell. P302+P352 - If on skin: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

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P310 - Immediately call a poison center or doctor.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P330 - Rinse mouth.
P332+P313 - If skin irritation occurs: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in
accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

Other hazards which do not result in classification : Harmful dust m

: Harmful dust may be released during cutting, milling or grinding process.

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Substituted imidazole	CAS-No.: 23996-25-0	< 30	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Reactive diluent	CAS-No.: 96-48-0	1 – 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 STOT SE 3, H336

Comments

: Components not listed are either non-hazardous or are below reportable limits.

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

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

SECTION 4 First aid measures 4.1. Description of necessary first-aid measures First-aid measures general : Call a poison center/doctor/physician if you feel unwell. 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 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 : Rinse mouth. Call a poison center/doctor/physician if you feel unwell. 4.2. Most important symptoms/effects, acute and delayed Symptoms/effects after inhalation : None under normal conditions. Symptoms/effects after skin contact : Irritation.

after eye contact	:	Serious damage to eyes.

Symptoms/effects

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Symptoms/effects a	after ingestior	۱
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: Harmful if swallowed.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment

: Treat symptomatically.

SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishing	g media
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream.
5.2. Specific hazards arising from the chem	nical
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 No fire hazard. No direct explosion hazard. Toxic fumes may be released.
5.3. Special protective equipment and prec	autions for fire-fighters
Firefighting instructions	 Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without quitable protective equipment. Solf contained broothing
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, protecti	ve equipment and emergency procedures		
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.		
For non-emergency personnel			
Protective equipment	: Wear recommended personal protective equipment.		
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.		
For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.		
Environmental precautions	: Avoid release to the environment.		
6.2. Methods and materials for con	tainment and cleaning up		
For containment	: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.		
Methods for cleaning up	: Take up liquid spill into absorbent material.		
Other information	: Dispose of materials or solid residues at an authorized site.		

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 Additional hazards when processed	 Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Not expected to present a significant hazard under anticipated conditions of normal use.
7.2. Conditions for safe storage, inclu	uding incompatibilities
Technical measures Storage conditions Packaging materials	 Keep in a cool, well-ventilated place away from heat. Keep cool. Protect from sunlight. Store always product in container of same material as original container.
SECTION 8 Exposure controls/pe	rsonal protection
8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering controls	s
Appropriate engineering controls Environmental exposure controls	Ensure good ventilation of the work station.Avoid release to the environment.
8.3. Individual protection measures, s	such as personal protective equipment
Personal protective equipment: Wear recommended personal protective equi	ipment.
Hand protection:	
a decision that depends not only on the type	enetration. Neoprene or nitrile rubber gloves. Butyl-rubber protective gloves. Choosing the proper glove is e of material, but also on other quality features, which differ for each manufacturer. Refer to manufacturer's 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 suitab	ole respiratory equipment
Personal protective equipment symbol(s):	

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

: Liquid

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Color	: Amber
Odor	: Mild odour
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 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
Explosion limits	: No data available
Particle characteristics	: No data available
Substituted imidazole	
Particle characteristics	No data available

Reactive diluent	
Particle characteristics	No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

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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11.1. Information on toxicological effects		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	Harmful if swallowed. Not classified Not classified	
EPO-TEK® 354-2 PART B		
ATE US (oral)	677.644 mg/kg body weight	
Substituted imidazole (23996-25-0)		
ATE US (oral)	100 mg/kg body weight	
Reactive diluent (96-48-0)		
LD50 oral rat	1582 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimenta value, Oral, 8 day(s))	
LD50 oral	800 mg/kg	
LD50 dermal	5600 mg/kg	
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))	
LC50 Inhalation - Rat (Dust/Mist)	5.1 mg/l/4h	
LC50 Inhalation - Rat (Vapours)	> 2.68 mg/l Source: International Uniform ChemicaL Information Database	
ATE US (oral)	800 mg/kg body weight	
ATE US (dermal)	5600 mg/kg body weight	
ATE US (dust, mist)	5.1 mg/l/4h	
Skin corrosion/irritation	: Causes skin irritation.	
Reactive diluent (96-48-0)		
рН	No data available in the literature	
Serious eye damage/irritation	: Causes serious eye damage.	
Reactive diluent (96-48-0)	No data available in the literature	
рН	No data available in the literature	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reactive diluent (96-48-0)		
NOAEL (chronic,oral,animal/male,2 years)	225 mg/kg body weight Animal: rat, Animal sex: male, Guideline: other:NTP Protocol, Remark 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)	
IARC group	3 - Not classifiable	
	. Not alogaified	
Reproductive toxicity STOT-single exposure	: Not classified : Not classified	

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Substituted imidazole (23996-25-0)		
STOT-single exposure	May cause respiratory irritation.	
Reactive diluent (96-48-0)		
STOT-single exposure	May cause drowsiness or dizziness.	
STOT-repeated exposure :	Not classified	
Aspiration hazard :	Not classified	
EPO-TEK® 354-2 PART B		
Viscosity, kinematic	No data available	
Substituted imidazole (23996-25-0)		
Viscosity, kinematic	No data available	
Reactive diluent (96-48-0)		
Viscosity, kinematic	No data available in the literature	
-)	None under normal conditions.	
	Irritation.	
	Serious damage to eyes.	
Symptoms/effects after ingestion :	Harmful if swallowed.	

SECTION 12 Ecological information

12.1. Ecotoxicity

12.1. ECOLOXICITY		
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.	
Hazardous to the aquatic environment, short-term (acute)	: Not classified	
Hazardous to the aquatic environment, long-term (chronic)	: Not classified	
Reactive diluent (96-48-0)		
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/I (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
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

EPO-TEK® 354-2 PART B		
Persistence and degradability Not rapidly degradable		
Substituted imidazole (23996-25-0)		
Persistence and degradability Not rapidly degradable		
Reactive diluent (96-48-0)		
Persistence and degradability Biodegradable in the soil, Readily biodegradable in water.		

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Reactive diluent (96-48-0)		
ThOD	1.67 g O ₂ /g substance	
12.3. Bioaccumulative potential		
Reactive diluent (96-48-0)		
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.	
12.4. Mobility in soil		
Reactive diluent (96-48-0)		
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		
Ozone :	Not classified	
Fluorinated greenhouse gases :	No	

SECTION 13 Disposal considerations	;
Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

SECTION 14 Transport information

DOT	TDG	IMDG	ΙΑΤΑ
14.1. UN number			
UN2735	UN2735	2735	2735
14.2. Proper Shipping Name			
Polyamines, liquid, corrosive, n.o.s.	AMINES, LIQUID, CORROSIVE, N.O.S.	AMINES, LIQUID, CORROSIVE, N.O.S.	Amines, liquid, corrosive, n.o.s.
14.3. Transport hazard class(es)			
8	8	8	8
CORROSIVE 8	B	B	B

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DOT	TDG	IMDG	ΙΑΤΑ
14.4. Packing group			
111	III	III	III
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information availab	le		

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user	
DOT UN-No.(DOT) DOT Special Provisions (49 CFR 172.102)	 UN2735 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 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
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 CFR 173.27)	: 5L
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

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TDG Special Provisions	 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3). (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; (d) 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) UN2814, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS
Fundacional Lineita d Quantituda da c	(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)	: P001, LP01
IBC packing instructions (IMDG)	: 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
Segregation (IMDG)	: SGG18, SG35
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.
ΙΑΤΑ	
Special provision (IATA)	: A3, A803
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 8L

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SECTION 15 Regulatory information

15.1. 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 (23996-25-0)

Listed on the Canadian DSL (Domestic Substances List)

Reactive diluent (96-48-0)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Reactive diluent (96-48-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. State regulations

This product can expose you to Acrylonitrile, which is known to the State of California to cause cancer. For more information go to www.P65W arnings.ca.gov.

SECTION 16 Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date : 1/2/2025

Full text of hazard classes and H-statements	
H301	Toxic if swallowed
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness

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.