

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

Safety Data Sheet

Issue date: 1/2/2025 Version: 1.0

A Meridian Adhesives Group Company

SECTION 1 Identification		
1.1. Product identifier		
Product form Product name	: Mixture : EPO-TEK® 354-T2 PART A	
1.2. Other means of identification		
No additional information available		
1.3. Recommended use of the chemical and 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 mixture		

GHS US classification

Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Skin sensitization, Category 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity — Single exposure, Category 1	H370	Causes damage to organs.
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. Label elements

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
 - H370 Causes damage to organs.
 - H411 Toxic to aquatic life with long lasting effects
- : P260 Do not breathe dust, fume, gas, mist, vapours, spray.
- P264 Wash hands, forearms and face thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P273 Avoid release to the environment.

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P280 - Wear protective gloves.
P302+P352 - If on skin: Wash with plenty of water.
P308+P311 - If exposed or concerned: 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 or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P405 - Store locked up.
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.: 9003-36-5	≥ 60	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Polar activator*	CAS-No.: Trade Secret	1-5	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret Comments : Components not listed are either non-hazardous o

: 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 inst-aid measures		
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.	
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 eyes with water as a precaution.	
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	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.	
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.	
Symptoms/effects after eye contact	: None under normal conditions.	
Symptoms/effects after ingestion	: None under normal conditions.	
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 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	5.2. Specific hazards arising from the chemical		
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 Protection during firefighting	 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 suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. 		

SECTION 6 Accidental release measures			
6.1. Personal precautions, protective 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. Do not breathe dust/fume/gas/mist/vapors/spray. 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 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.		

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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. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wear personal protective equipment.		
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.		
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.		
7.2. Conditions for safe storage, include	ding incompatibilities		
Technical measures	: Keep in a cool, well-ventilated place away from heat.		
Storage conditions Packaging materials	: Store locked up. : Store always product in container of same material as original container.		
r ackaying materiais	. Store always product in container of same material as original container.		

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Polar activator		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	200 ppm	
ACGIH OEL STEL	250 ppm	
Remark (ACGIH)	TLV® Basis: Headache; eye dam; dizziness; nausea. Notations: Skin; BEI	
Regulatory reference ACGIH 2024		
USA - ACGIH - Biological Exposure Indices		
BEI	15 mg/l Parameter: Methanol - Medium: urine - Sampling time: End of shift - Notations: B, Ns	
Regulatory reference	ACGIH 2024	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA	260 mg/m ³	
	200 ppm	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
8.2. Appropriate engineering controls		

o.z. Appropriate engineering control

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

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Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Color	: tan
Odor	: slight
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Flammability (solid, gas)	: No data available
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

Polar activator	
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.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11 Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified Not classified Not classified 	
Polar activator		
LD50 oral rat	1187 – 2769 mg/kg body weight (BASF test, Rat, Male / female, Experimental value, 15-35 % aqueous solution, Oral, 7 day(s))	
LD50 oral	1400 mg/kg	
LD50 dermal rabbit	300 mg/kg Source: ECHA	
LD50 dermal	15800 mg/kg	
LC50 Inhalation - Rat	128.2 mg/l air (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))	
ATE US (oral)	100 mg/kg body weight	
ATE US (dermal)	300 mg/kg body weight	
ATE US (gases)	700 ppmV/4h	
ATE US (vapors)	3 mg/l/4h	
ATE US (dust, mist)	0.5 mg/l/4h	
Skin corrosion/irritation	Causes skin irritation.	
Epoxy phenol novolac resin (9003-36-	5)	
рН	No data available in the literature	
Polar activator		
рН	No data available in the literature	
Serious eye damage/irritation	: Not classified	
Epoxy phenol novolac resin (9003-36-	5)	
рН	No data available in the literature	

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Polar activator		
рН	No data available in the literature	
Respiratory or skin sensitization Germ cell mutagenicity	: May cause an allergic skin reaction. : Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Polar activator		
NOAEL (animal/male, F0/P)	< 1000 mg/kg body weight Animal: mouse, Animal sex: male	
STOT-single exposure	: Causes damage to organs.	
Polar activator		
STOT-single exposure	Causes damage to organs.	
STOT-repeated exposure	: Not classified	
Epoxy phenol novolac resin (9003-36-	5)	
NOAEL (oral,rat,90 days)	≈ 250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)	
Aspiration hazard	: Not classified	
EPO-TEK® 354-T2 PART A		
Viscosity, kinematic	No data available	
Epoxy phenol novolac resin (9003-36-	5)	
Viscosity, kinematic	No data available in the literature	
Polar activator		
Viscosity, kinematic	0.68 – 0.747 mm²/s	
Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.	
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction. : None under normal conditions.	
Symptoms/effects after eye contact Symptoms/effects after ingestion	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
Epoxy phenol novolac resin (9003-36-5)	
LC50 - Fish [1]	1.9 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Semi-static system, Fresh water, Weight of evidence)
EC50 - Crustacea [1]	3.5 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Weight of evidence, GLP)
LC50 - Fish [2]	1000 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)

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Epoxy phenol novolac resin (9003-36-5)		
EC50 72h - Algae [1]	1.8 mg/l (Equivalent or similar to OECD 201, Selenastrum capricornutum, Static system, Fresh water, Experimental value)	
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'	
Polar activator		
LC50 - Fish [1]	15400 mg/l (EPA 660/3 - 75/009, 96 h, Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Lethal)	
EC50 - Crustacea [1]	18260 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 96 h, Daphnia magna, Semi- static system, Fresh water, Experimental value, Locomotor effect)	
EC50 96h - Algae [1]	22000 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate)	
NOEC (chronic)	208 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	

12.2. Persistence and degradability

EPO-TEK® 354-T2 PART A		
Persistence and degradability	Not rapidly degradable	
Epoxy phenol novolac resin (9003-36-5)		
Persistence and degradability Not readily biodegradable in water.		
Polar activator		
Persistence and degradability	Readily biodegradable in the soil, Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.6 – 1.12 g O ₂ /g substance	
Chemical oxygen demand (COD)	1.42 g O ₂ /g substance	
ThOD 1.5 g O ₂ /g substance		

12.3. Bioaccumulative potential

Epoxy phenol novolac resin (9003-36-5)		
Partition coefficient n-octanol/water (Log Pow)	2.7 – 3.6 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Polar activator		
BCF - Fish [1]	1 – 4.5 (72 h, Cyprinus carpio, Static system, Fresh water, Experimental value)	
Partition coefficient n-octanol/water (Log Pow)	-0.77 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

12.4. Mobility in soil

Epoxy phenol novolac resin (9003-36-5)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.65 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)	
Ecology - soil	Low potential for mobility in soil.	

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Polar activator		
Mobility in soil	2.75 Source: HSDB	
Surface tension	No data available in the literature	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	-0.89 – -0.21 (log Koc, Calculated value)	
Ecology - soil	Highly mobile in soil.	
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.	

: 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 hazardous substances, liquid, n.o.s. (Epoxy phenol novolac resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy phenol novolac resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy phenol novolac resin)	Environmentally hazardous substance, liquid, n.o.s. (Epoxy phenol novolac resin)	
14.3. Transport hazard class(es	5)	I	I	
9	9	9	9	
14.4. Packing group				
III	III	III	III	
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	
No supplementary information available	ble	1	1	
14.6. Transport in bulk				

Not applicable

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14.7. Special precautions for user

	. 11/2002
UN-No.(DOT) DOT Special Provisions (49 CFR 172.102)	 UN3082 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 (31H21 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). T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241 · No Limit
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: No Limit
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, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d) UN3248, MEDICINE, SOLID, TOXIC, N.O.S. (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (f) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (g) UN241, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (h) 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 SUBSTANCE, SOLID, N.O.S, or IN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, 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 and during transport. (2) These Regulations, except for Parts 1 and 2, do not apply to the offering for transport, handling or transport, less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, on a road vehicle or a railway vehicle. The dangerous goods must be containe		
Explosive Limit and Limited Quantity Index	safety. : 5 L		
	: 5L : E1		
Excepted quantities (TDG)			
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)	: A		
Stowage calegoly (IIVIDG)			
ΙΑΤΑ			
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	tion	
15.1. Federal regulations		
All components of this product are present (TSCA) inventory	and listed as Active on the United States	Environmental Protection Agency Toxic Substances Control Act
Chemical(s) subject to the reporting require and 40 CFR Part 372.	ements of Section 313 or Title III of the S	uperfund Amendments and Reauthorization Act (SARA) of 1986
Polar activator	CAS-No. 67-56-1	1 – 5%
Polar activator		
Listed on EPA Hazardous Air Pollutant (HA	APS)	
CERCLA RQ	5000 lb	
15.2. International regulations		
CANADA		
Epoxy phenol novolac resin (9003-3	36-5)	
Listed on the Canadian DSL (Domestic Su	bstances List)	
Polar activator		
Listed on the Canadian DSL (Domestic Su	bstances List)	
EU-Regulations		
No additional information available		
National regulations		
Epoxy phenol novolac resin (9003-3	36-5)	
Listed on INSQ (Mexican National Inventor	y of Chemical Substances)	
Polar activator		
Listed on INSQ (Mexican National Inventory of Chemical Substances)		
15.3. State regulations		
WARNING: This product can expose you to Polar activator, 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.		
Component	State or local regulation	ins
Polar activator()	U.S Massachusetts - Rig Substance List	ht To Know List; U.S New Jersey - Right to Know Hazardous

SECTION 16 Other information

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Full text of haz	Full text of hazard classes and H-statements		
H225	Highly flammable liquid and vapor		
H301	Toxic if swallowed		
H311	Toxic in contact with skin		
H315	Causes skin irritation		
H317	May cause an allergic skin reaction		
H331	331 Toxic if inhaled		
H370	Causes damage to organs.		
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-T2 PART B
1.2. Other means of identification	
No additional information available	
1.3. Recommended use of the chemical and	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 mix	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) Precautionary statements (GHS US)	 Danger H302 - Harmful if swallowed H315 - Causes skin irritation H318 - Causes serious eye damage 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 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

Comments

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

*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.

*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

No additional information available

4.2. Most important symptoms/effects, acute and delayed

No additional information available

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

No additional information available

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

No additional information available

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

No additional information available

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No additional information available

For emergency responders

No additional information available

6.2. Methods and materials for containment and cleaning up

No additional information available

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7 Handling and storage

7.1. Precautions for safe handling

No additional information available

7.2. Conditions for safe storage, including incompatibilities

No additional information available

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures, such as 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

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Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic	pnysical	and	cnemical	properties		
Physical stat	e				:	Liquid

•	•
Color	: Amber
Odor	: slight
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Flammability (solid, gas)	: No data available
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

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

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10.4. Conditions to avoid
No additional information available
10.5. Incompatible materials
No additional information available
10.6. Hazardous decomposition products
No additional information available
SECTION 11 Toxicological information
11.1. Information on toxicological offects

11.1. Information on toxicological effects	
Acute toxicity (dermal) :	Harmful if swallowed. Not classified Not classified
EPO-TEK® 354-T2 PART B	
ATE US (oral)	677.644 mg/kg body weight
Substituted imidazole	
ATE US (oral)	100 mg/kg body weight
Reactive diluent	
LD50 oral rat	1582 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 8 day(s))
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	
рН	No data available in the literature
Serious eye damage/irritation :	Causes serious eye damage.
Reactive diluent	
рН	No data available in the literature
Germ cell mutagenicity :	Not classified Not classified
Carcinogenicity :	Not classified

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Reactive diluent	
NOAEL (chronic,oral,animal/male,2 years)	225 mg/kg body weight Animal: rat, Animal sex: male, Guideline: other:NTP Protocol, Remarks on results: other:Effect type: carcinogenicity (migrated information)
NOAEL (chronic,oral,animal/female,2 years)	450 mg/kg body weight Animal: rat, Animal sex: female, Guideline: other:NTP Protocol, Remarks on results: other:Effect type: carcinogenicity (migrated information)
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
Substituted imidazole	
STOT-single exposure	May cause respiratory irritation.
Reactive diluent	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
EPO-TEK® 354-T2 PART B	
Viscosity, kinematic	No data available
Substituted imidazole	
Viscosity, kinematic	No data available
Reactive diluent	
Viscosity, kinematic	No data available in the literature

SECTION 12 Ecological information

Hazardous to the aquatic environment, short-term : (acute)	Not classified
Hazardous to the aquatic environment, long-term : (chronic)	Not classified
Reactive diluent	
LC50 - Fish [1]	56 mg/l (Equivalent or similar to OECD 203, 96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	> 500 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
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)

EPO-TEK® 354-T2 PART B	
Persistence and degradability	Not rapidly degradable

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Substituted imidazole		
Persistence and degradability Not rapidly degradable		
Reactive diluent		
Persistence and degradability	Biodegradable in the soil, Readily biodegradable in water.	
ThOD	1.67 g O ₂ /g substance	

12.3. Bioaccumulative potential

Reactive diluent		
BCF - Other aquatic organisms [1]	3.162 l/kg (BCFBAF v3.00, Calculated value, Fresh weight)	
Partition coefficient n-octanol/water (Log Pow)	-0.566 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)	
Bioaccumulative potential	Not bioaccumulative.	

12.4. Mobility in soil

Reactive diluent		
Surface tension	No data available (test not performed)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.544 – 0.811 (log Koc, SRC PCKOCW IN v2.0, Calculated value)	
Ecology - soil	Highly mobile in soil.	
12.5. Other adverse effects		
	Not classified No	

SECTION 13 Disposal considerations

No additional information available

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

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

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Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Image: Colspan="2" (Colspan="2") 11.4.5. Environmental hazards Dangerous for the environment: No Dangerous for the environment: No Dangerous for the environment: No No supplementary information available 14.6. Transport in bulk	TDG	IMDG	ΙΑΤΑ	
III 14.5. Environmental hazards Dangerous for the environment: No Dangerous for No supplementary information available Dangerous for	B	8	8	
14.5. Environmental hazards Dangerous for the environment: No Dangerous for the environment: No No supplementary information available				
Dangerous for the environment: No Dangerous for No supplementary information available	III	III	III	
No supplementary information available				
	r the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	
14.6. Transport in bulk				
Not applicable				
14.7. Special precautions for user				
DOT UN-No.(DOT) : UN2735 DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21 and 31HA2, 31HB2, 31HD2, and 31HH2). Additional Requirement: Only liquid with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 5 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				

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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; (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment 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) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or
	(b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS.
	: 5L
	: E1 : 5L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	. 5L
	: 153
IMDG	
	: 223, 274 : 5 L
,	: E1
	: P001, LP01
,	: IBC03
	: T7
	: TP1, TP28
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
	: A
Segregation (IMDG)	: SGG18, SG35
	: 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.
Special provision (IATA) PCA Excepted quantities (IATA)	: A3, A803 : E1
,	: Y841
	: 1641 : 1L
	: 852
,	: 5L
	: 856
CAO max net quantity (IATA)	: 60L
	: 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

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

Reactive diluent

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.