Date: 11 October 2013

Product identifier **EPO-TEK H70E Part A GHS** Product Identifier **EPO-TEK H70E Part A**

Chemical Name Not applicable

EPO-TEK H70E Part A Trade name

CAS No. Mixture EINECS No. Mixture REACH Registration No. Not available

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s)

1.1

Uses advised against Users are recommended to seek further advice.

1.3 Details of the supplier of the safety data sheet

> Company Identification **Epoxy Technology, Inc.**

Address 14 Fortune Drive, Billerica MA 01821 USA

Telephone (978) 667-3805 E-Mail (competent person) techserv@epotek.com

1.4 Emergency telephone number - Chemtel Inc.

Emergency Phone No. (800) 255-3924, (813) 248-0585

SECTION 2: HAZARDS IDENTIFICATION

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

2.1 Classification of the Substance or Mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP) - Acute Toxicity 5, Skin Irritation 2, Eye Irritation 2A, Skin

Sensitizer 1, (3.1/5, 3.2/2, 3.3/2A, 3.4/1)

2.1.2 Directive 67/548/EEC & Directive 1999/45/EC -Harmful / Irritant

2.2 **Label Elements**

Label Elements According to Regulation (EC) No. 1272/2008 (CLP) 2.2.1

GHS Product Identifier (EU)

Signal Word(s) Warning Pictogram(s)

Hazard

Hazard H303: May be harmful if swallowed.

H315: Causes skin irritation. Statement(s)

> H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.

H411: Toxic to aquatic life with log lasting effects.

EUH205: Contains epoxy constituents. See information supplied by the manufacturer.

Precautionary P264: Wash (hands and exposed skin) thoroughly after handling.

Statement(s) P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell.

P302 + P352: IF ON SKIN: Wash with plenty of soap and 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.

P312: Call a POISON CENTER or doctor if you feel unwell.

2.2.2 Label Elements According to Directive 67/548/EEC & Directive 1999/45/EC

Hazard Symbol

Risk Phrases



R22: Harmful in contact with skin and if swallowed.

R36/38: Irritating to eyes and skin.

R43: May cause sensitization by skin contact.

R51: Toxic to aquatic organisms

Safety Phrases S24/25: Avoid contact with skin and eves.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S36/39: Wear suitable protective clothing and eye/face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the

label where possible).

2.3 Other Hazards GHS Classification (USA): Hazardous under OSHA Hazard Communication

> Standard - Sensitizer/Irritant (Eyes, Skin) HMIS: Health-2, Flammability-1, Reactivity - 0

Page: 1/7 Expiration Date: 11 October 2015

SAFETY DATA SHEET

EPO-TEK H70E Part A

WHMIS Classification (Canada): Hazardous under WHMIS Class D2B - Material Causing Other Toxic Effects (Sensitizer, Irritation)



Date: 11 October 2013

2.4 **Additional Information** None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

EC Classification No. 1272/2008/EC

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Statement(s)	
Epoxy Phenol Novolac	50-75	28064-14-4	None	NA	3.1/5, 3.2/2, 3.4/1, 3.3/2A; H303, H315, H317, H319, H411, EUH205	

EC Classification No. 67/548/EEC

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Pictogram(s) and Hazard Statement(s)	
Epoxy Phenol Novolac	50-75	28064-14-4	None	NA	*	Xn, Xi, N; R22, R36/38, R43, R51

Additional Information - For full text of H phrases see section 16. For full text of R phrases see section 16. 3.3 Non-Hazardous ingredients are not listed and make up the balance of the product.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Remove patient from exposure. Keep patient at rest and give oxygen if breathing difficult. If symptoms develop, obtain medical attention.

Skin Remove contaminated clothing immediately and drench affected skin with plenty of water, then

Eve Remove any contact lenses. Irrigate with eyewash solution or clean water, holding the eyelids Contact apart, for at least 15 minutes. Obtain immediate medical attention.

Ingestion may cause irritation of the gastrointestinal tract. If swallowed, seek medical advice Ingestion immediately and show this container or label. Do not induce vomiting. Make victim drink plenty of

wash with soap and water. If irritation (redness, rash, blistering) develops, get medical attention.

water. Get immediate medical attention.

42 Most important symptoms and effects. both acute and delayed

Contact

Acute: Causes serious eye irritation. Causes skin irritation. Ingestion may cause irritation of the gastrointestinal tract. May cause sensitization by skin contact. Delayed and chronic effects: May cause corneal damage. Sensitization is more likely with repeated exposures.

Indication of the 4.3 immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Combustible but not readily ignited. Acrid smoke. Flash Point > 93.3°C / 200°F.

5.1 Extinguishing media

> Suitable Extinguishing Media Extinguish preferably with dry chemical, foam or water spray. Unsuitable Extinguishing Media None known.

5.2 Special hazards arising from the substance or mixture

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

5.3 Advice for fire-fighters Extinguish preferably with dry chemical, foam or water spray. Launder

contaminated protective devices.

Page: 2/7 Expiration Date: 11 October 2015

Y DATA SHEET Date: 11 October 2013

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure full personal protection (including respiratory protection) during

removal of spillages.

6.2 Environmental Precautions Ventilation recommended.

6.3 Methods and material for containment and cleaning up

Transfer to a lidded container for disposal or recovery. Re- use or

recycling of waste highly recommended.

6.4 Reference to other sections See Also Section 7, 8, 13.

6.5 Additional Information None

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe Avoid handling agen

Avoid ingestion. Use only in well-ventilated areas. Keep away from oxidizing agents. Keep away from fire, sparks and heated surfaces - no smoking.

7.2 Conditions for safe storage, including any incompatibilities

Protect from sunlight. Store in a well-ventilated place. Do not use or store near heat or open flame. Do not store and transport with oxidizers etc.

Storage Temperature Storage Life

Ambient. Not available

Incompatible materials Oxidizing agents, Can react violently if in contact with acids, alkalis, reducing

agents and heavy metals.

7.3 Specific end use(s) Consult the supplier.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note:
No occupational exposure limits have been established for this product or any listed components.						

OELs are not available for non-listed components.

8.1.2 Biological limit value

Limit value type (country of origin)	SUBSTANCE.	CAS No.	Biological limit value	Note:
USA	None	None	None	None

8.1.3 PNECs and DNELs

DNEL	Oral	Inhalation	Dermal
Industry - Long Term – Local effects	NA	NA	NA
Industry - Long Term - Systemic effects	NA	NA	NA
Industry - Short term - Local effects	NA	NA	NA
Industry - Short term - Systemic effects	NA	NA	NA
Professional - Long Term - Local effects	NA	NA	NA
Professional - Long Term – Systemic effects	NA	NA	NA
Professional - Short term - Local effects	NA	NA	NA
Professional - Short term - Systemic effects	NA	NA	NA
Consumer - Long Term - Local effects	NA	NA	NA
Consumer - Long Term - Systemic effects	NA	NA	NA
Consumer - Short term - Local effects	NA	NA	NA
Consumer - Short term - Systemic effects	NA	NA	NA

EPOXY.

Page: 3/7 Expiration Date: 11 October 2015

Date: 11 October 2013

Not available

	PNEC
Aquatic Compartment	Not available
Terrestrial Compartment	Not available
Atmospheric Compartment	Not available

8.2.2 Personal protection equipment

Respirators	Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.
Eye Protection	Safety glasses.
Gloves	Wear protective gloves.
Body protection	Wear suitable protective clothing and gloves.
Engineering Controls	Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapors.
Other	Remove contaminated, saturated clothing immediately. Contaminated clothing should be thoroughly cleaned.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 **Information On Basic Physical And Chemical Properties**

Appearance White paste White Color Odor Mild / Slight Odor Threshold (ppm) Not available Melting Point (°C) / Freezing Point (°C) Not available Boiling Point/Boiling Range (°C) Not available Flash Point (°C) > 200°F / 93°C **Explosive Limit Ranges** Not available Decomposition Temperature (°C) Auto Ignition Temperature (°C) Not available Not available **Explosive Properties** Oxidizing Properties Not available Not available Flammability (Solid, Gas) Not available pH (Value) Not available Vapor Pressure (mm Hg) **Evaporation Rate** < Butyl Acetate Not available Vapor Density (Air=1) Not available Density (g/ml) 1.19 Practically insoluble. Not available Solubility (Water) Solubility (Other) Partition Coefficient (n-Octanol/water)

9.2 Other Information Volatile Organic Chemical (VOC) Content – Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity Contains epoxy constituents. See information supplied by the manufacturer. May

react with incompatible materials.

Not available

10.2 **Chemical stability** Stable under normal conditions.

10.3 Possibility of Can react violently if in contact with - Oxidizing agents. Can react violently if in

hazardous reactions contact with acids, alkalis, reducing agents and heavy metals.

10.4 Conditions to avoid Avoid contact with heat and ignition sources.

10.5 Incompatible Bleaching products and comparable oxidisers. Can react violently if in contact

materials with acids, alkalis, reducing agents and heavy metals.

Hazardous 10.6 Carbon monoxide, Carbon dioxide, Metal fumes and oxides. Thermal

Decomposition decomposition will evolve toxic, irritant and flammable vapors. Product(s)

SECTION 11: TOXICOLOGICAL INFORMATION

SUBSTANCE.	CAS No.	LD ₅₀ (Oral, Rat)	LC₅₀ (Inhalation, Rat)	LD ₅₀ (Dermal, Rat)
Epoxy Phenol Novalac	28064-14-4	Not established	Not established	Not established



Page: 4/7 Expiration Date: 11 October 2015

Viscosity (mPa.s)

AFETY DATA SHEET Date: 11 October 2013

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity No data

Irritation May cause irritation. May cause sensitization by skin contact.

Corrosivity None

Repeated dose toxicity Expected to be similar to single exposures.

Carcinogenicity No data.

Mutagenicity No data.

Toxicity for reproduction No data

11.2 Other information None

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity No data

12.2 Persistence and degradability Moderately/partially biodegradable. Not persistent.

12.3 Bioaccumulative potential Moderately/partially biodegradable.

12.4 Mobility in soil The product has high mobility in soil.

12.5 Results of PBT and vPvB

Land transport (ADR/RID) (b)(c)(d)

assessment

No data.

12.6 Other adverse effects No data.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Disposal should be in accordance with local, state or national

legislation. Containers must not be punctured or destroyed by

DOT Classification (USA) (c)(d)

burning, even when empty.

13.2 Additional Information None

SECTION 14: TRANSPORT INFORMATION

UN number	UN3082 Environmentally	UN number	None
Proper Shipping Name	Hazardous Substance, Liquid, n.o.s.	Proper Shipping Name	None
Transport hazard class(es)	9	Transport hazard class(es)	None
Packing Group	III	Packing Group	None
Hazard label(s)	Miscellaneous	Hazard label(s)	None
Environmental hazards	Marine Pollutant	Environmental hazards	None
Special precautions for user	None	Special precautions for user	None
Sea transport (IMDG) (c)(d)		Air transport (ICAO/IATA)	(c) (d)
UN number	UN3082 Environmentally	UN number	UN3082

Proper Shipping Name Hazardous Substance,

ardous Substance, Proper Shipping Name

Environmentally Hazardous Substance, Liquid, n.o.s

Liquid, n.o.s Su Transport hazard class(es) 9 Transport hazard class(es) 9 Packing Group III Packing Group III

Marine Pollutant Yes Environmental hazards Marine Pollutant

Special precautions for user None Special precautions for user None

- (b)- Full proper shipping name: Environmentally Hazardous Substance, Liquid, n.o.s.(Epoxy Phenol Novolac)
- (c)- Consult with transport provider.
- (d)- Check relevant regulations for Special Provisions.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

EPOXY Page: 5/7 Expiration Date: 11 October 2015

ETY DATA SHEET Date: 11 October 2013

Consult the supplier.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 EU regulations

Authorizations and/or restrictions on use

European Union (EINECS/ELINCS) None.

German WGK number Not applicable.

15.1.2 National regulations

USA

TSCA (Toxic Substance Control Act)

SARA 311/312 - Hazard Categories

SARA 302 - Extremely Hazardous Substances

SARA 313 - Toxic Chemicals

CERCLA (Comprehensive Environmental Response

Acute Health

Listed. - None

Listed. - None

Listed. - None

Compensation and Liability Act)

CAA (Clean Air Act 1990) Listed. – None CWA (Clean Water Act) Listed. - None

State Right to Know Lists

Listed. –CA, FL, MA, MN, NJ, PA, & RI.

Proposition 65 (California) - WARNING: This product contains a chemical known to the state of

California to cause cancer and/or reproductive harm.

Canada

WHMIS Classification: Class D2B -Very Toxic material Causing Other Toxic Effects.

Canada (DSL/NDSL) Listed. - DSL
Canada Ingredient Disclosure List (CIDL) Listed as required.

15.2 Chemical Safety Assessment Irritant & Sensitizer

15.3 Label elements (EU)







Label as harmful under 1999/45/EEC, 1907/2006/EC, and 1272/2008/EC. See Section 2 for full label requirements.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16

LEGEND

ACGIH	American Conference Of Governmental Industrial Hygienists	NA	Not Applicable, Not Available
AICS	Australian Inventory Of Chemical Substances	NIOSH	National Institute For Occupational Safety And Health
ANSI	American National Standards Institute	ND	Not Determined
atm	Atmosphere (Pressure Unit)	NFPA	National Fire Prevention Association
BOD	Biological Oxygen Demand	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OC	Open Cup
CC	Closed Cup	OSHA	Occupational Safety And Health Administration
CDTA	Chemical Drug And Trafficking Act	Part	Partition
COC	Cleveland Open Cup	PEL	Permissible Exposure Limits
COD	Chemical Oxygen Demand	ppb	Parts Per Billion
coeff.	Coefficient	PPE	Personal Protective Equipment
CFR	Code Of Federal Regulations	ppm	Parts Per Million
CPR	Cardio-Pulmonary Resuscitation	psi	Pounds Per Square Inch
DEA	Drug Enforcement Agency	RCRA	Resource Conservation And Recovery Act
DOT	Department Of Transportation	RQ	Reportable Quantity
DSCL	Dangerous Substances Classification And Labeling	RTK	Right To Know



Page: 6/7 Expiration Date: 11 October 2015

Revision: 11.02CLP

SAFETY DATA SHEET

EPO-TEK H70E Part A

Date: 11 October 2013

EEC	European Economic Community	SARA	Superfund Amendments And Reauthorization Act
FDA	Food And Drug Administration	STEL	Short-Term Exposure Limit
HMIS	Hazardous Materials Information System	SUSDP	Standard For The Uniform Scheduling Of Drugs And Poisons (Australia)
IARC	International Agency For Research On Cancer	TCC	Tagliabue Closed Cup
IDLH	Immediate Danger To Life Or Health	TDG	Transportation Of Dangerous Goods
kg	Kilogram	TPQ	Threshold Planning Quantity
L	Liter	TQ	Threshold Quantity
LC ₅₀	Median Lethal Concentration	TSCA	Toxic Substances Control Act
LD_{50}	Median Lethal Dose	TWA	Time-Weighted Average
LEL	Lower Explosive Limit	UEL	Upper Explosive Limit
mg	Milligram	WES	Workplace Exposure Standard (New Zealand)
mL	Milliliter	WHMIS	Workplace Hazardous Material Information System

References: RTECS, CAS Registry, EINECS/ESIS, Casarett & Doull's Toxicology, Goldfranks's

Toxicological Emergencies, Manufacturer Information

Risk Phrases and Safety Phrases

R22: Harmful if swallowed.

R36/38: Irritating to eyes and skin.

R43: May cause sensitization by skin contact.

R51: Toxic to aquatic organisms.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/39: Wear suitable protective clothing and eye/face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Hazard Statement(s) and Precautionary Statement(s)

H303: May be harmful if swallowed.

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.

EUH205: Contains epoxy constituents. See information supplied by the manufacturer.

P264: Wash (hands and exposed skin) thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302 + P352: IF ON SKIN: Wash with plenty of soap and 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.

P312: Call a POISON CENTER or doctor if you feel unwell.

Training Advice: None

Additional Information: None

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Epoxy Technology, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Epoxy Technology, Inc. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

EPOXY

Page: 7/7 Expiration Date: 11 October 2015

1.1

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier EPO-TEK H70E Part B
GHS Product Identifier EPO-TEK H70E Part B

Chemical Name Not applicable

Trade name EPO-TEK H70E Part B

CAS No. Mixture
EINECS No. Mixture
REACH Registration No. Not available

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified use(s)

Uses advised against

Users are recommended to seek further advice.

1.3 Details of the supplier of the safety data sheet

Company Identification Epoxy Technology, Inc.

Address 14 Fortune Drive, Billerica MA 01821 USA

Telephone (978) 667–3805
E-Mail (competent person) techserv@epotek.com

1.4 Emergency telephone number – Chemtel Inc.

Emergency Phone No. (800) 255-3924, (813) 248-0585

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Regulation (EC) No. 1272/2008 (CLP) - Acute toxicity 4, Skin Irritation 2, Eye Damage 1, STOT-single

exposure 3 (3.1/4, 3.2/2, 3.3/1, 3.8/3)

2.1.2 Directive 67/548/EEC & Directive 1999/45/EC - CORROSIVE, HARMFUL

2.2 Label elements

2.2.1 Label elements According to Regulation (EC) No. 1272/2008 (CLP)

GHS Product Identifier (EU)

Hazard Signal word(s) DANGER

pictogram(s)

Hazard

H302: Harmful if swallowed. H315: Causes skin irritation.

statement(s) H318: Causes serious eye damage. H335: May cause respiratory irritation.

Precautionary P261: Avoid breathing dust/fume/gas/mist/vapors/spray. statement(s) P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

P302 + P352: IF ON SKIN: Wash with plenty of soap and 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.

2.2.2 Label elements According to Directive 67/548/EEC & Directive 1999/45/EC

Hazard Symbol

Risk Phrases R22: Harmful if swallowed.

R37/38: Irritating to respiratory system and skin.

R41: Risk of serious damage to eyes.

Safety Phrases S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S36/39: Wear suitable protective clothing and eye/face protection.

S46: If swallowed, seek medical advice immediately and show this container or label.

2.3 Other hazards GHS Classification (USA): Hazardous under OSHA Hazard

Communication Standard - Corrosive

HMIS: Health-2, Flammability-1 Reactivity - 1

WHMIS Classification (Canada): Hazardous under WHMIS

Class D2B - Material Causing Other Toxic Effects (Irritation); Class

E, Corrosive Material



Date: 11 October 2013

Page: 1/7 Expiration Date: 11 October 2015

Date: 11 October 2013

2.4 Additional Information None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

EC Classification No. 1272/2008/EC

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	statement(s)	
Reactive Diluent	<10	Proprietary	Proprietary	NA		3.1/4, 3.3/1, 3.8/3b, H302, H318, H336
Substituted Imidazole	<20	Proprietary	Proprietary	NA		3.1/3, 3.2/2, 3.3/1, 3.8/3a H301, H315, H318, H335

EC Classification No. 67/548/EEC

Hazardous ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.		ım(s) and Risk (R) as(es)
Reactive Diluent	<10	Proprietary	Proprietary	NA	×	Xn, Xi: R22, R41, R67
Substituted Imidazole	<20	Proprietary	Proprietary	NA		T, Xi: R25, R37/38, R41

3.3 Additional Information - For full text of H phrases see section 16. For full text of R phrases see section 16. Non-Hazardous ingredients are not listed and make up the balance of the product.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation Remove patient from exposure. Keep patient at rest and give oxygen if breathing difficult. If

symptoms develop, obtain medical attention.

Skin Causes skin irritation. Remove contaminated clothing immediately and drench affected skin with Contact plenty of water, then wash with soap and water. If irritation (redness, rash, blistering) develops,

get medical attention.

Eye May cause corneal injury. May cause corneal damage.Remove any contact lenses. Irrigate with

eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain

immediate medical attention.

Ingestion Ingestion may cause irritation of the gastrointestinal tract. If swallowed, seek medical advice

immediately and show this container or label. Do not induce vomiting. Make victim drink plenty

of water. Get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Contact

Acute: May cause irritation to skin. Causes serious eye irritation.

Toxic if swallowed.

Delayed and chronic effects: May cause corneal damage. Discolors skin and mucous membranes. Effects similar to acute exposures.

4.3 Indication of the immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Combustible but not readily ignited. Acrid smoke. Flash Point > 93.3°C / 200°F.

5.1 Extinguishing media

Suitable Extinguishing Media Extinguish preferably with dry chemical, foam or water spray. Unsuitable Extinguishing Media None known.

5.2 Special hazards arising from the substance or mixture

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Inhalation of metal fumes from fire may

result in metal fume disease.

EPOXY Page: 2/7 Expiration Date: 11 October 2015

SAFETY DATA SHEET

EPO-TEK H70E Part B

5.3 Advice for fire-fighters Extinguish preferably with dry chemical, foam or water spray. Launder contaminated protective devices.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure full personal protection (including respiratory protection) during

Date: 11 October 2013

removal of spillages. Evacuate if necessary.

6.2 **Environmental Precautions** Ventilation recommended.

6.3 Methods and material for containment and cleaning up Transfer to a lidded container for disposal or recovery. Re-

use/recycling of waste highly recommended.

6.4 Reference to other sections

See Also Section 7, 8, 13.

6.5 **Additional Information** None

SECTION 7: HANDLING AND STORAGE

Avoid ingestion. Use only in well-ventilated areas. Avoid inhalation of high 7.1 Precautions for safe handling

concentrations of vapors. Keep away from oxidizing agents. Keep away

from fire, sparks and heated surfaces - no smoking.

7.2 Conditions for safe storage,

including any incompatibilities

Storage Temperature Storage Life

Incompatible materials

Protect from sunlight. Store in a well-ventilated place. Do not use or store near heat or open flame. Do not store and transport with oxidizers etc.

Ambient. Not available

Oxidizing agents. Can react violently if in contact with acids, alkalis,

reducing agents and heavy metals.

7.3 Specific end use(s) Consult the supplier.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note:
No occupational exposure limits for this product or listed components have been established.						

OELs are not available for non-listed components.

8.1.2 Biological Limit Value

Limit Value Type (Country Of Origin)	Substance	CAS No.	Biological Limit Value	Note:
USA	None	None	None	None

8.1.3 PNECs and DNELs

DNEL	Oral	Inhalation	Dermal
Industry - Long Term – Local effects	NA	NA	NA
Industry - Long Term - Systemic effects	NA	NA	NA
Industry - Short term - Local effects	NA	NA	NA
Industry - Short term - Systemic effects	NA	NA	NA
Professional - Long Term - Local effects	NA	NA	NA
Professional - Long Term – Systemic effects	NA	NA	NA
Professional - Short term - Local effects	NA	NA	NA
Professional - Short term - Systemic effects	NA	NA	NA
Consumer - Long Term - Local effects	NA	NA	NA
Consumer - Long Term - Systemic effects	NA	NA	NA
Consumer - Short term - Local effects	NA	NA	NA
Consumer - Short term - Systemic effects	NA	NA	NA

	PNEC
Aquatic Compartment	Not available

Page: 3/7 Expiration Date: 11 October 2015 Terrestrial Compartment
Atmospheric Compartment

SAFETY DATA SHEET EPO-TEK H70E Part B

Li 0	TERTIFOET AIR D
	Not available
	Not available

Date: 11 October 2013

8.2.2 Personal Protection Equipment

(a)	Respirators	Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.
	Eye Protection	Safety glasses.
	Gloves	Wear protective gloves.
八八	Body Protection	Wear suitable protective clothing and gloves. Wear chemical resistant apron.
	Engineering	Use adequate ventilation and/or engineering controls in high temperature
	Controls	processing to prevent exposure to vapors.
	Other	Remove contaminated, saturated clothing immediately. Contaminated clothing
		should be thoroughly cleaned.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Tan paste Tan Appearance Color Odor Mild / Slight Odor Threshold (ppm) Not available Melting Point (°C) / Freezing Point (°C) Not available Boiling point/boiling range (°C): Not available Flash Point (°C) > 200°F / 93°C Explosive limit ranges Not available Auto Ignition Temperature (°C) Not available Decomposition Temperature (°C) Not available Explosive properties Not available Oxidizing properties Not available pH (Value) Not available Not available Flammability (solid, gas) Evaporation rate <BuAc Vapor Pressure (mm Hg) Not available Vapor Density (Air=1) Density (g/ml) Not available Not available Solubility (Water) Practically insoluble. Solubility (Other) Not available Viscosity (mPa.s) Partition Coefficient (n-Octanol/water) Not available Paste

9.2 Other information Volatile Organic Chemical (VOC) Content – Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity See information supplied by the manufacturer. May react with incompatible

materials.

10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of Can react violently if in contact with - Oxidizing agents. Can react violently if in

hazardous reactions contact with acids, alkalis, reducing agents and heavy metals.

10.4 Conditions to avoid Avoid contact with heat and ignition sources.

10.5 Incompatible materials Bleaching products and comparable oxidisers. Can react violently if in contact

with acids, alkalis, reducing agents and heavy metals.

10.6 Hazardous Carbon monoxide, carbon dioxide, metal fumes and oxides. Thermal

Decomposition decomposition will evolve toxic, irritant and flammable vapors.

Product(s)

SECTION 11: TOXICOLOGICAL INFORMATION

SUBSTANCE.	CAS No.	LD ₅₀ (Oral, Rat)	LC₅₀ (Inhalation, Rat)	LD ₅₀ (Dermal, Rat)
Reactive Diluent	Proprietary	1540 mg/kg	5100 mg/m ³ / 4H	5000 mg/kg (guinea pig)
Substituted Imidazole	Proprietary	Not established	Not established	Not established



Page: 4/7 Expiration Date: 11 October 2015

ETY DATA SHEET Date: 11 October 2013

11.1 Information on toxicological effects

11.1.2 Mixtures

Acute toxicity Harmful if swallowed. Ingestion may cause irritation of the gastrointestinal

tract. May cause drowsiness or dizziness.

Irritation May cause burns to skin and eyes.
Corrosivity May cause burns to skin and eyes.

Repeated dose toxicity Expected to be similar to single exposures.

Carcinogenicity No data.

Mutagenicity No data.

Toxicity for reproduction No data.

11.2 Other information None

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity Harmful to aquatic life. Harmful to algae.

12.2 Persistence and degradability Moderately/partially biodegradable. Not persistent.

12.3 Bioaccumulative potential Moderately/partially biodegradable.

12.4 Mobility in soil The product has high mobility in soil.

12.5 Results of PBT and vPvB assessment No data.

12.6 Other adverse effects No data

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Disposal should be in accordance with local, state or national legislation

Containers must not be punctured or destroyed by burning, even when

empty.

13.2 Additional Information None

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID) (c)(d)	Land transport (Within USA) (c)(d)		
UN number	None	UN number	None	
Proper Shipping Name	Not regulated.	Proper Shipping Name	Not regulated.	
Transport hazard class(es)	None	Transport hazard class(es)	None	
Packing Group	None	Packing Group	None	
Hazard label(s)	None	Hazard label(s)	None	
Environmental hazards	None	Environmental hazards	None	
Special precautions for user	None	Special precautions for user	None	
San transport (IMDC) (a)(d)		Air transport (ICAO/IATA) (c) (d)	

Sea transport (IMDG) (c)(d) Air transport (ICAO/IATA) (c) (d)

UN number None UN number None Proper Shipping Name Not regulated. Proper Shipping Name Not regulated.

Transport hazard class(es) Transport hazard class(es) None None Packing Group **Packing Group** None None Marine Pollutant None Environmental hazards None Special precautions for user None Special precautions for user None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health And Environmental Regulations/Legislation Specific For The Substance Or Mixture

15.1.1 EU Regulations

Authorizations And/Or Restrictions On Use European Union (EINECS/ELINCS) German WGK Number

2

Geillian WGR Nu

Page: 5/7 Expiration Date: 11 October 2015

Consult the supplier. All chemicals listed.

⁽c)- Consult with transport provider.

⁽d)- Check relevant regulations for Special Provisions.

15.1.2 **National regulations**

All chemicals listed. TSCA (Toxic Substance Control Act) SARA 311/312 - Hazard Categories Acute Health SARA 302 - Extremely Hazardous Substances Listed - None. SARA 313 - Toxic Chemicals Listed - None. CERCLA (Comprehensive Environmental Response Listed - None.

Compensation and Liability Act)

CAA (Clean Air Act 1990) Listed - None. CWA (Clean Water Act) Listed - None.

State Right to Know Lists Listed - MA, NJ, PA, and RI.

Proposition 65 (California) - WARNING: This product contains a chemical known to the state of

California to cause cancer and/or reproductive harm.

Canada

WHMIS Classification Class D2B, Material with Toxic Effects

Class E, Corrosive Material

Canada (DSL/NDSL) Listed - DSL Canada Ingredient Disclosure List (CIDL) Listed as required.

15.2 **Chemical Safety Assessment**

Corrosive (Eye), Irritant (Skin, Respiratory system)

Date: 11 October 2013

15.3 Label elements (EU)





Label as Harmful under 1999/45/EC and Harmful, Corrosive under 1907/2006/EC and 1272/2008/EC. See Section 2 for full label requirements.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

ACGIH	American Conference of Governmental Industrial Hygienists	NA	not applicable, not available
AICS	Australian Inventory of Chemical Substances	NIOSH	National Institute for Occupational Safety and Health
ANSI	American National Standards Institute	ND	not determined
atm	atmosphere (pressure unit)	NFPA	National Fire Prevention Association
BOD	biological oxygen demand	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OC	open cup
CC	closed cup	OSHA	Occupational Safety and Health Administration
CDTA	Chemical Drug and Trafficking Act	Part	partition
COC	Cleveland Open Cup	PEL	permissible exposure limits
COD	chemical oxygen demand	ppb	parts per billion
coeff.	coefficient	PPE	personal protective equipment
CFR	Code of Federal Regulations	ppm	parts per million
CPR	cardio-pulmonary resuscitation	psi	pounds per square inch
DEA	Drug Enforcement Agency	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	RQ	Reportable quantity
DSCL	Dangerous Substances Classification and Labeling	RTK	Right to Know
EEC	European Economic Community	SARA	Superfund Amendments and Reauthorization Act
FDA	Food and Drug Administration	STEL	short-term exposure limit
HMIS	Hazardous Materials Information System	SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons (Australia)
IARC	International Agency for Research on Cancer	TCC	Tagliabue Closed Cup
IDLH	immediate danger to life or health	TDG	Transportation of Dangerous Goods
kg	kilogram	TPQ	threshold planning quantity
L	liter	TQ	threshold quantity
LC50	median lethal concentration	TSCA	Toxic Substances Control Act
LD50	median lethal dose	TWA	time-weighted average
EDON	73.7		

Page: 6/7 Expiration Date: 11 October 2015

SAFETY DATA SHEET

EPO-TEK H70E Part B

Date: 11 October 2013

LEL lower explosive limit UEL upper explosive limit

WES Workplace Exposure Standard (New Zealand) milligram ma mL milliliter WHMIS Workplace Hazardous Material Information System

References: RTECS, CAS Registry, EINECS/ESIS, Casarett & Doull's Toxicology, Goldfranks's

Toxicological Emergencies, Manufacturer Information

Risk Phrases and Safety Phrases

R22: Harmful if swallowed.

R25: Toxic if swallowed.

R37/38: Irritating to respiratory system and skin.

R41: Risk of serious damage to eyes.

R67: Vapors may cause drowsiness and dizziness.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/39: Wear suitable protective clothing and eye/face protection.

S46: If swallowed, seek medical advice immediately and show this container or label.

Hazard statement(s) and Precautionary statement(s)

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.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302 + P352: IF ON SKIN: Wash with plenty of soap and 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.

Training advice: None

Additional Information: None

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Epoxy Technology, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Epoxy Technology, Inc. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

Page: 7/7 Expiration Date: 11 October 2015