Printing date 04/10/2015

Reviewed on 04/10/2015

## **1** Identification

- · Product identifier
- · Trade name: K-Poxy Epoxy Terrazzo Resin Part A
- · Article number: KR-108 5-000
- · Recommended use and restriction on use
- · Recommended use: Coating
- Restrictions on use: No further relevant information available.
- Details of the supplier of the Safety Data Sheet
   Manufacturer/Supplier:
   Klein and Company, Inc.
   165-167 Hickory Springs Industrial Drive
   Canton, GA 30115
   (800)241-0681

• Emergency telephone number: ChemTel Inc. (800)255-3924, +1 (813)248-0585

## 2 Hazard(s) identification

#### · Classification of the substance or mixture

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

#### • Additional information:

There are no other hazards not otherwise classified that have been identified.

0 percent of the mixture consists of ingredient(s) of unknown toxicity.

#### · Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



· Signal word Warning

 Hazard-determining components of labeling: bisphenol A diglycidyl ether polymer
 Hazard statements
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.

(Contd. on page 2)

Reviewed on 04/10/2015

## Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 04/10/2015

Trade name: K-Poxy Epoxy Terrazzo Resin Part A (Contd. of page 1) Precautionary statements Avoid breathing mist/vapors/spray. P261 P280 Wear protective gloves and eve protection. P264 Wash thoroughly after handling. P272 Contaminated work clothing must not be allowed out of the workplace. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take off contaminated clothing and wash before reuse. P362 P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eve irritation persists: Get medical advice/attention. P302+P352 If on skin: Wash with plenty of water. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. · Hazard description: · WHMIS-symbols: D2B - Toxic material causing other toxic effects · Classification system: NFPA ratings (scale 0 - 4) Health = 2Fire = 1 Reactivity = 0 · HMIS-ratings (scale 0 - 4) <sup>2</sup> Health = 2 HEALTH 1 Fire = 1 FIRE REACTIVITY Reactivity = 0 · Other hazards · Results of PBT and vPvB assessment • **PBT:** Not applicable. **vPvB:** Not applicable. 3 Composition/information on ingredients · Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
25068-38-6	bisphenol A diglycidyl ether polymer	40-60%
	() Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
471-34-1	calcium carbonate	20-40%
	(Contd	on page 3)

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Trade name: K-Poxy Epoxy Terrazzo Resin Part A

	(Contd. of page
107-41-5 2-methylpentane-2,4-diol	5-10%
Skin Irrit. 2, H315; Eye Irrit. 2, H319	
Flam. Liq. 4, H227	
-	<1.0%
1330-20-7 xylene	<1.0%
Flam. Liq. 3, H226	
Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
· Additional information:	
For the listed ingredients, the identity and exact percentages are being withhe	ld as a trade secret.
Depending on color, one or more of the following may be present:	
Titanium Dioxide, CAS 13463-67-7	
Black Iron Oxide, CAS 1317-61-9	
Red Iron Oxide, CAS 1332-37-2	
Yellow Iron Oxide, CAS 51274-00-1	
Chromium Oxide, CAS 1308-38-9	
4 First-aid measures	
<ul> <li>Description of first aid measures</li> <li>General information: Immediately remove any clothing soiled by the product.</li> <li>After inhalation: Supply fresh air; consult doctor in case of complaints.</li> <li>After skin contact: Immediately wash with water and soap and rinse thoroughly.</li> </ul>	
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<ul> <li>General information: Immediately remove any clothing soiled by the product.</li> <li>After inhalation: Supply fresh air; consult doctor in case of complaints.</li> <li>After skin contact: <ul> <li>Immediately wash with water and soap and rinse thoroughly.</li> <li>If skin irritation continues, consult a doctor.</li> </ul> </li> <li>After eye contact: <ul> <li>Remove contact lenses if worn.</li> <li>Rinse opened eye for several minutes under running water. If symptoms persites</li> </ul> </li> <li>After swallowing: <ul> <li>Rinse out mouth and then drink plenty of water.</li> <li>Do not induce vomiting; immediately call for medical help.</li> </ul> </li> <li>Information for doctor: <ul> <li>Most important symptoms and effects, both acute and delayed</li> <li>Allergic reactions</li> <li>Coughing</li> <li>Dizziness</li> <li>Irritant to skin and mucous membranes.</li> <li>Irritant to eyes.</li> <li>Gastric or intestinal disorders when ingested.</li> <li>Nausea in case of ingestion.</li> </ul> </li> <li>Danger No further relevant information available.</li> <li>Indication of any immediate medical attention and special treatment nee</li> </ul>	ist, consult a doctor. <b>ded</b> ns.

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#### Trade name: K-Poxy Epoxy Terrazzo Resin Part A

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#### **5** Fire-fighting measures

#### · Extinguishing media

• Suitable extinguishing agents: Use fire fighting measures that suit the environment.

• For safety reasons unsuitable extinguishing agents: None.

• Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

#### · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information No special measures required.

## 6 Accidental release measures

#### • Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

Send for recovery or disposal in suitable receptacles.

#### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

· Handling:

Precautions for safe handling

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- **Requirements to be met by storerooms and receptacles:** Avoid storage near extreme heat, ignition sources or open flame.
- No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.

Store away from oxidizing agents.

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Trade name: K-Poxy Epoxy Terrazzo Resin Part A

(Contd. of page 4)

## • Further information about storage conditions: Keep receptacle tightly sealed. Protect from humidity and water.

• Specific end use(s) No further relevant information available.

## 8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· Components w	· Components with limit values that require monitoring at the workplace:		
471-34-1 calciu	471-34-1 calcium carbonate		
PEL (USA)	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction		
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction		
TLV (USA)	TLV withdrawn		
107-41-5 2-met	thylpentane-2,4-diol		
REL (USA)	Ceiling limit value: 125 mg/m <sup>3</sup> , 25 ppm		
TLV (USA)	Ceiling limit value: 121 mg/m³, 25 ppm		
EL (Canada)	Ceiling limit value: 25 ppm		
EV (Canada)	Ceiling limit value: 120 mg/m³, 25 ppm		
LMPE (Mexico)	Ceiling limit value: 25 ppm		
1330-20-7 xyler	1330-20-7 xylene		
PEL (USA)	Long-term value: 435 mg/m <sup>3</sup> , 100 ppm		
REL (USA)	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm		
TLV (USA)	Short-term value: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI		
EL (Canada)	Short-term value: 150 ppm Long-term value: 100 ppm		
EV (Canada)	Short-term value: 650 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm		
LMPE (Mexico)	Long-term value: 100 ppm A4, IBE		
13463-67-7 tita	inium dioxide		
PEL (USA)	Long-term value: 15* mg/m³ *total dust		
REL (USA)	See Pocket Guide App. A		
TLV (USA)	Long-term value: 10 mg/m³ withdrawn from NIC		
	(Contd.	on page 6)	

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Trade name: K-Poxy Epoxy Terrazzo Resin Part A

		(Contd. of page 5)
EL (Canada)	Long-term value: 10* 3** mg/m <sup>3</sup>	
	*total dust;**respirable fraction; IARC 2B	
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup> total dust	
LMPE (Mexico)	Long-term value: 10 mg/m³ A4	
1200 20 0 diab	romium trioxide	
PEL (USA)	Long-term value: 0.5 mg/m³ as Cr	
REL (USA)	Long-term value: 0.5 mg/m <sup>3</sup>	
	as Cr; See Pocket Guide App. C	
TLV (USA)	Long-term value: 0.5 mg/m <sup>3</sup>	
	as Cr	
EL (Canada)	Long-term value: 0.5 mg/m <sup>3</sup>	
	as Cr	
LMPE (Mexico)	Long-term value: 0.5 mg/m <sup>3</sup>	
( /	A4	
1332-37-2 Iron	oxide	
REL (USA)	Long-term value: 1 mg/m <sup>3</sup>	
	as Fe	
TLV (USA)	Long-term value: 1 mg/m <sup>3</sup>	
	as Fe	
LMPE (Mexico)	Long-term value: 1 mg/m <sup>3</sup>	
	como Fe	
· Ingredients wit	h biological limit values:	
1330-20-7 xyler	10	
BEI (USA) 1.5 g	g/g creatinine	
Med	ium: urine	
	e: end of shift	
	meter: Methylhippuric acids	
· Additional info	rmation: The lists that were valid during the creation were used as basis.	
• Exposure continue	rols	
•	ctive equipment:	
	tive and hygienic measures:	
	utionary measures for handling chemicals should be followed. foodstuffs, beverages and feed.	
	nove all soiled and contaminated clothing.	
	fore breaks and at the end of work.	
Do not inhale ga	ises / fumes / aerosols.	
	th the eyes and skin.	
	ntrols: No further relevant information available.	
• Breathing equi		
	der normal conditions of use. piratory protective device when aerosol or mist is formed.	
	piratory protective device when high concentrations are present.	
		(Contd. on page 7)

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Trade name: K-Poxy Epoxy Terrazzo Resin Part A

(Contd. of page 6)

## · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

## Eye protection:



Safety glasses

· Body protection: Protective work clothing

· Limitation and supervision of exposure into the environment

No further relevant information available.

Information on basic physical and General Information		
Appearance:		
Form:	Liquid	
Color: Odor:	According to product specification Mild	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.	
Flash point:	> 94 °C (> 201 °F)	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	>150 °C (>302 °F) (Estimate)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not self-igniting.	
Danger of explosion:	Product does not present an explosion hazard.	(Contd. on page

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Trade name: K-Poxy Epoxy Terrazzo Resin Part A			
		(Contd. of page 7)	
<ul> <li>Explosion limits: Lower: Upper:</li> <li>Oxidizing properties</li> </ul>	Not determined. Not determined. Non-oxidizing.		
· Vapor pressure:	Not determined.		
<ul> <li>Density at 20 °C (68 °F):</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	1.51 g/cm³ (12.601 lbs/gal) Not determined. Not determined. Not determined.		
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Fully miscible.		
· Partition coefficient (n-octanol/water	:): Not determined.		
<ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> </ul>	Not determined. Not determined.		
<ul> <li>Solvent content:</li> <li>Organic solvents:</li> <li>VOC content:</li> </ul>	<1 % Vol < 1 % Vol		
Solids content: • Other information	Not determined. No further relevant information available.		
10 Stability and reactivity	10 Stability and reactivity		

## · Reactivity

- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- Possibility of hazardous reactions
- Reacts with strong acids and alkali.
- Reacts with strong oxidizing agents.
- Toxic fumes may be released if heated above the decomposition point.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products:
- Under fire conditions only:
- Carbon monoxide and carbon dioxide
- Toxic metal oxide smoke

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# Trade name: K-Poxy Epoxy Terrazzo Resin Part A

(Contd. of page 8)

1 Toxio	cological information
	nation on toxicological effects
	toxicity:
· LD/LC	50 values that are relevant for classification:
25068	-38-6 bisphenol A diglycidyl ether polymer
Oral	LD50 >2000 mg/kg (rat, female)
Derma	al LD50 >2000 mg/kg (rat)
	ry irritant effect:
	e skin: Irritant to skin and mucous membranes.
	e eye: Irritating effect.
	tization: Sensitization possible through skin contact. cute to chronic toxicity: No further relevant information available.
	ional toxicological information:
Irritant	
	er through skin absorption.
Toxic	and/or corrosive effects may be delayed up to 24 hours.
	nogenic categories
•	National Toxicology Program)
None	of the ingredients is listed.
·OSHA	-Ca (Occupational Safety & Health Administration)
None	of the ingredients is listed.
	ble Routes of Exposure
Inhala	
Ingest Eye co	
	ontact.
	effects (acute toxicity, irritation and corrosivity):
	ng to eyes.
	ng to skin.
	ause an allergic skin reaction. ated Dose Toxicity: Repeated exposures may result in skin and/or respiratory sensitivity.
repea	area Dose Toxicity. Repeated exposures may result in skin and/or respiratory sensitivity.
	aciaal information
	ogical information
Toxic	
	tic toxicity:
	for aquatic organisms
	-38-6 bisphenol A diglycidyl ether polymer
	2.7 mg/kg (daphnia) (48hr)
LC50	1.2 mg/l (Oncorhynchus mykiss) (96hr)
	2.4 mg/l (zebra fish) (96hr)
· Persis	stence and degradability No further relevant information available. (Contd. on page
	(Conto. on page

(Contd. of page 9)

# Safety Data Sheet acc. to OSHA HCS (29 CFR 1910.1200)

Trade name: K-Poxy Epoxy Terrazzo Resin Part A Behavior in environmental systems:
Bioaccumulative potential No further relevant information available.
Mobility in soil No further relevant information available.
Ecotoxical effects:
Remark: Toxic for fish
Additional ecological information:
General notes:

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

· Other adverse effects No further relevant information available.

## **13 Disposal considerations**

#### Waste treatment methods

#### · Recommendation:

Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

#### · Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

UN3082 s than 30 kg (66 lb) and inner packagings less than 5 L (1.3 Environmentally hazardous substances, liquid, n.o.s. (bisphenol A diglycidyl ether polymer), MARINE POLLUTANT
Environmentally hazardous substances, liquid, n.o.s. (bisphenol A diglycidyl ether polymer), MARINE POLLUTANT
(bisphenol A diglycidyl ether polymer), MARINE POLLUTANT
3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A diglycidyl ether polymer)
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A diglycidyl ether polymer), MARINE POLLUTANT
Environmentally hazardous substances, liquid, n.o.s. (bisphenol A diglycidyl ether polymer)

Reviewed on 04/10/2015

Printing date 04/10/2015

Printing date 04/10/2015

Reviewed on 04/10/2015

	(Contd. of page
Transport hazard class(es)	(
DOT, IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
Label	9
ADR	
Class	9 (M6) Miscellaneous dangerous substances and articles
Label	9
Packing group	
DOT, ADR, IMDG, IATA Environmental hazards:	III Product contains environmentally hazardous substanc
	bisphenol A diglycidyl ether polymer
Marine pollutant:	Yes
	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
Special marking (IATA): Special precautions for user	Warning: Miscellaneous dangerous substances and article
Danger code (Kemler):	90
EMS Number:	F-A,S-F
Transport in bulk according to Ann	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Remarks:	Transport labeling is not required for non-bulk sing package shipments by motor vehicle, rail car or aircraft. B packaging consists of a maximum capacity of greater th 450L (119 gallons) for a liquid and a maximum net ma greater than 400kg (882 pounds) for a solid. Special marking with the symbol (fish and tree).
ADR	
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml (Contd. on page

Printing date 04/10/2015 Reviewed on 04/10/2015 Trade name: K-Poxy Epoxy Terrazzo Resin Part A (Contd. of page 11) **UN "Model Regulation":** UN3082, Environmentally hazardous substances, liquid, n.o.s. (bisphenol A diglycidyl ether polymer), 9, III **15 Regulatory information** · Safety, health and environmental regulations/legislation specific for the substance or mixture · United States (USA) · SARA Section 355 (extremely hazardous substances): None of the ingredients is listed. · Section 313 (Specific toxic chemical listings): None of the ingredients are listed. • TSCA (Toxic Substances Control Act): All ingredients are listed. · Proposition 65 (California) · Chemicals known to cause cancer: 28553-12-0 di-"isononyl" phthalate · Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. · Chemicals known to cause developmental toxicity: None of the ingredients is listed. · Carcinogenic categories · EPA (Environmental Protection Agency) 1330-20-7 xylene · IARC (International Agency for Research on Cancer) 1330-20-7 xylene 3 • TLV (Threshold Limit Value established by ACGIH) 1330-20-7 xylene A4 NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. State Right to Know Listings None of the ingredients is listed. · Canadian substance listings: · Canadian Domestic Substances List (DSL)

All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

(Contd. on page 13)

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Trade name: K-Poxy Epoxy Terrazzo Resin Part A

(Contd. of page 12)

## Canadian Ingredient Disclosure list (limit 1%)

107-41-5 2-methylpentane-2,4-diol

#### • Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

• Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision 04/10/2015 / -

#### · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Flam. Liq. 3: Flammable liquids, Hazard Category 3 Flam. Liq. 4: Flammable liquids, Hazard Category 4 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 · Sources SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com