Printing date 04/10/2015 Reviewed on 04/10/2015

1 Identification

· Product identifier

· Trade name: K-Poxy Primer/Low Modulus Binder Part A

· Article number: ESI-10-Clear

· 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



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child. Route of exposure: Oral.



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin 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







GHS05 GHS07 GHS08

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· Signal word Danger

· Hazard-determining components of labeling:

bisphenol A diglycidyl ether polymer

4-nonylphenol, branched

Alkyl C12-C13 glycidyl ether

· Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child. Route of exposure: Oral.

· Precautionary statements

P261 Avoid breathing mist/vapors/spray.

P280 Wear protective gloves/protective clothing/eye protection.

P264 Wash thoroughly after handling.
P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P362 Take off contaminated clothing and wash before reuse. P308+P313 IF exposed or concerned: 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 = 2 Fire = 1

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



*2 Health = *2

1 Fire = 1

REACTIVITY Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · **vPvB:** Not applicable.

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3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · **Description**: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
	bisphenol A diglycidyl ether polymer	60-80%
	♦ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
120547-52-6	Alkyl C12-C13 glycidyl ether	≤ 10%
	♦ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
84852-15-3	4-nonylphenol, branched	≤ 10%
	Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302	
l .	l V	
	Benzyl alcohol	≤ 10%
	(1) Acute Tox. 4, H302; Acute Tox. 4, H332	

· Additional information:

For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

4 First-aid measures

- Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

- Information for doctor:
- · Most important symptoms and effects, both acute and delayed

Headache

Allergic reactions

Coughing

Dizziness

Irritant to skin and mucous membranes.

Gastric or intestinal disorders when ingested.

Nausea

· Danger

Danger of disturbed cardiac rhythm.

Causes serious eye damage.

Suspected of damaging fertility or the unborn child. Route of exposure: Oral.

May be harmful if inhaled.

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Indication of any immediate medical attention and special treatment needed Medical supervision for at least 48 hours.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

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.

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- · 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.

· 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.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

100-51-6 Benzyl alcohol

WEEL (USA) Long-term value: 10 ppm

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- Engineering controls: No further relevant information available.
- · Breathing equipment:

Use suitable respiratory protective device when aerosol or mist is formed.

Use suitable respiratory protective device when high concentrations are present.

NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.

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

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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.

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Liquid Clear Odor: Mild

Odor threshold: Not determined.pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined. **Boiling point/Boiling range:** >204 °C (>399 °F)

• Flash point: > 94 °C (> 201 °F) (Closed Cup)

Flammability (solid, gaseous): Not applicable.
 Auto-ignition temperature: Not determined.
 Decomposition temperature: Not determined.

· **Auto igniting:** Product is not self-igniting.

• Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.
Upper: Not determined.
Oxidizing properties Non-oxidizing.

· Vapor pressure at 38 °C (100 °F): <1.3 hPa (<1 mm Hg)

• **Density at 20 °C (68 °F):** 1.11 g/cm³ (9.263 lbs/gal)

Relative density
 Vapour density
 Evaporation rate
 Not determined.
 Not determined.

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· Solubility in / Miscibility with

Water: Slightly soluble.

• Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined. **Kinematic:** Not determined.

· Solvent content:

Organic solvents:

VOC content:

Not determined.

Not determined.

Not determined.

· Other information No further relevant information available.

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

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

 LD/LC50 values that are relevant for classificatio
--

25068-38-6 bisphenol A diglycidyl ether polymer

Oral LD50 >2000 mg/kg (rat, female)
Dermal LD50 >2000 mg/kg (rat)

120547-52-6 Alkyl C12-C13 glycidyl ether

Dermal LD50 4500 mg/kg (rabbit)

- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: Sensitization possible through skin contact.
- Subacute to chronic toxicity: No further relevant information available.

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· Additional toxicological information:

Irritant

Danger through skin absorption.

Toxic and/or corrosive effects may be delayed up to 24 hours.

· Carcinogenic categories

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Probable Routes of Exposure

Inhalation.

Ingestion.

Eye contact.

Skin contact.

· Acute effects (acute toxicity, irritation and corrosivity):

Irritating to skin.

Causes serious eye damage.

May cause an allergic skin reaction.

May be harmful if inhaled.

· Repeated Dose Toxicity:

Repeated exposures may result in skin and/or respiratory sensitivity.

Suspected of damaging fertility or the unborn child. Route of exposure: Oral.

12 Ecological information

- · Toxicity
- · Aquatic toxicity:

Toxic for aquatic organisms

25068-38-6 bisphenol A diglycidyl ether polymer

EC50 2.7 mg/kg (daphnia) (48hr)

LC50 1.2 mg/l (Oncorhynchus mykiss) (96hr)

2.4 mg/l (zebra fish) (96hr)

- Persistence and degradability No further relevant information available.
- · 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

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· 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.

14 Transport information

· UN-Number

· DOT, ADR, IMDG, IATA

UN3082

· UN proper shipping name



Limited Quantity for packages less than 30 kg (66 lb) and inner packagings less than 5 L (1.3 gal).

· DOT

Environmentally hazardous substances, liquid, n.o.s. (bisphenol A diglycidyl ether polymer), MARINE POLLUTANT

· ADR

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A diglycidyl ether polymer)

·IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol A diglycidyl ether polymer), MARINE POLLUTANT

· IATA

Environmentally hazardous substances, liquid, n.o.s. (bisphenol A diglycidyl ether polymer)

- · Transport hazard class(es)
- · DOT, IMDG, IATA



· Class · Label

9 Miscellaneous dangerous substances and articles

9

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Trade name: K-Poxy Primer/Low Modulus Binder Part A

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· ADR



· Class 9 (M6) Miscellaneous dangerous substances and articles

· Label

· Packing group

DOT, ADR, IMDG, IATA Ш

· Environmental hazards: Product contains environmentally hazardous substances:

bisphenol A diglycidyl ether polymer

· Marine pollutant: Yes

> Symbol (fish and tree) Symbol (fish and tree)

· Special marking (ADR): · Special marking (IATA): Symbol (fish and tree)

· Special precautions for user Warning: Miscellaneous dangerous substances and articles

· Danger code (Kemler): · EMS Number: F-A,S-F

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· Transport/Additional information:

· DOT

· Remarks: Transport labeling is not required for non-bulk single

package shipments by motor vehicle, rail car or aircraft. Bulk packaging consists of a maximum capacity of greater than 450L (119 gallons) for a liquid and a maximum net mass

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 UN "Model Regulation": UN3082, Environmentally hazardous substances, liquid,

n.o.s. (bisphenol A diglycidyl ether polymer), 9, III

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Trade name: K-Poxy Primer/Low Modulus Binder Part A

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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:

None of the ingredients are listed.

· 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)

None of the ingredients is listed.

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· 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.

· Canadian Ingredient Disclosure list (limit 1%)

100-51-6 Benzyl alcohol

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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

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Repr. 2: Reproductive toxicity, Hazard Category 2

Sources

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