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1 Identification
· Product identifier
• Trade name: K-Poxy Primer/Low Modulus Binder Part B
· Article number: ESI-IO-FC-B
<ul> <li>Recommended use and restriction on use</li> <li>Recommended use: Coating material</li> <li>Restrictions on use: No further relevant information available.</li> </ul>
<ul> <li>Details of the supplier of the Safety Data Sheet</li> <li>Manufacturer/Supplier: Klein and Company, Inc. 165-167 Hickory Springs Industrial Drive Canton, GA 30115 (800)241-0681</li> </ul>
• <b>Emergency telephone number:</b> 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
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
GHS07
Acute Tox. 4 H302 Harmful if swallowed.
Acute Tox. 4 H332 Harmful if inhaled.
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.
<ul> <li>Label elements</li> <li>GHS label elements</li> <li>The product is classified and labeled according to the Globally Harmonized System (GHS).</li> <li>Hazard pictograms</li> </ul>
GHS05 GHS07 GHS08
(Contd. on page 2)

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Trade name: K-Poxy	y Primer/Low Modulus Binder Part B	
		(Contd. of page 1)
· Signal word Dar	nger	
	ning components of labeling:	
4-nonylphenol, b		
2,2'-iminodiethyla		
Polyamido Amine	9	
Benzyl alcohol		
<ul> <li>Hazard stateme</li> </ul>		
	mful if swallowed or if inhaled.	
	ses severe skin burns and eye damage.	
	cause an allergic skin reaction.	
	pected of damaging fertility or the unborn child. Route of exposu	re: Oral.
· Precautionary s		
P260	Do not breathe mist/vapors/spray.	
P280	Wear eye protection / face protection.	
P280	Wear protective gloves/protective clothing/eye protection.	
P264	Wash thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P271	Use only outdoors or in a well-ventilated area.	
P201	Obtain special instructions before use.	underete e d
P202	Do not handle until all safety precautions have been read and	
P303+P301+P35	33 IF ON SKIN (or hair): Remove/Take off immediately all cont skin with water/shower.	aminated clothing. Rinse
D205+D251+D22		omovo contact longos if
P305+P351+P33	38 If in eyes: Rinse cautiously with water for several minutes. F	temove contact lenses, il
P304+P340	present and easy to do. Continue rinsing. IF INHALED: Remove victim to fresh air and keep at rest in a	position comfortable for
F304+F340	breathing.	a position connortable for
P312	Call a poison center/doctor if you feel unwell.	
P363	Wash contaminated clothing before reuse.	
	31 If swallowed: Rinse mouth. Do NOT induce vomiting.	
P501	Dispose of contents/container in accordance with local/region	nal/national/international
1001	regulations.	
<ul> <li>Hazard descript</li> </ul>		
· WHMIS-symbols		
	erial causing other toxic effects	
E - Corrosive ma		
· Classification s	ystem:	
NFPA ratings (s		
Health		
3 0 Fire =		
🥆 🔨 React	tivity = 0	
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Trade name: K-Poxy Primer/Low Modulus Binder Part B

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· HMIS-ratings (scale 0 - 4)

HEALTHImage: Second constraintsImage: Health = \*3FIRE1Fire = 1REACTIVITY0Reactivity = 0

· Other hazards

### · Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• vPvB: Not applicable.

	haracterization: Mixtures 1: Mixture of the substances listed below with nonhazardous additions.	
Dangerous	components:	
84852-15-3	4-nonylphenol, branched Repr. 2, H361 Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302	40-60%
68953-36-6	Polyamido Amine           Image: Object of the second secon	10-20%
100-51-6	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332	5-15%
112-57-2	3,6,9-triazaundecamethylenediamine Skin Corr. 1B, H314 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317	5-15%
111-40-0	2,2'-iminodiethylamine Acute Tox. 2, H330 Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; STOT SE 3, H335	1-5%
80-05-7	bisphenol A Repr. 2, H361 Eye Dam. 1, H318 Skin Sens. 1, H317; STOT SE 3, H335	1-5%
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol Skin Corr. 1B, H314 Skin Sens. 1, H317	1-5%

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

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D	escription of first aid measures
G	eneral information:
	nmediately remove any clothing soiled by the product.
S	ymptoms of poisoning may even occur after several hours; therefore medical observation for at least
	ours after the accident.
	fter inhalation:
	upply fresh air; consult doctor in case of complaints.
	case of unconsciousness place patient stably in side position for transportation.
	fter skin contact:
	nmediately rinse with water.
	skin irritation or rash occurs: Get medical advice/attention.
	eek immediate medical help for blistering or open wounds.
	fter eye contact:
	emove contact lenses if worn, if possible.
	inse opened eye for several minutes under running water. Then consult a doctor.
	fter swallowing:
	inse out mouth and then drink plenty of water.
	o not induce vomiting; immediately call for medical help.
	formation for doctor:
	lost important symptoms and effects, both acute and delayed
A	Ilergic reactions
	austic effect on skin and mucous membranes.
	oughing
	izziness
	ausea
	astric or intestinal disorders when ingested. rofuse sweating
	anger
	anger of disturbed cardiac rhythm.
	anger of gastric perforation.
	auses serious eye damage.
	armful if swallowed.
	armful if inhaled.
	lay be harmful in contact with skin.
S	uspected of damaging fertility or the unborn child. Route of exposure: Oral.
	idication of any immediate medical attention and special treatment needed
	ledical supervision for at least 48 hours.
	ontains 2,2'-iminodiethylamine, 3,6,9-triazaundecamethylenediamine, bisphenol A, 2,4,6-tris(dimeth
	minomethyl)phenol. May produce an allergic reaction.

## **5** Fire-fighting measures

• Extinguishing media • Suitable extinguishing agents: Foam

Gaseous extinguishing agents

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Water fog / haze
Carbon dioxide
Fire-extinguishing powder
For safety reasons unsuitable extinguishing agents:
Water spray
Water stream.
Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.
Advice for firefighters
Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.
Additional information
Use large quantities of foam as it is partially destroyed by the product.
Cool endangered receptacles with water fog.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

• 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:

Store only in the original receptacle.

Avoid storage near extreme heat, ignition sources or open flame.

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 Information about storage in one common storage facility: Store away from foodstuffs.
 Do not store together with acids.
 Store away from oxidizing agents.
 Store away from metals.
 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 p	arameters
-----------	-----------

· Control parame		
•	rith limit values that require monitoring at the workplace:	
100-51-6 Benzy		
WEEL (USA)	Long-term value: 10 ppm	
	riazaundecamethylenediamine	
WEEL (USA)	Long-term value: 5 mg/m³ Skin; DSEN	
111-40-0 2,2'-in	ninodiethylamine	
REL (USA)	Long-term value: 4 mg/m³, 1 ppm Skin	
TLV (USA)	Long-term value: 4.2 mg/m³, 1 ppm Skin	
EL (Canada)	Long-term value: 1 ppm Skin; S	
EV (Canada)	Long-term value: 4 mg/m³, 1 ppm Skin	
LMPE (Mexico)	Long-term value: 1 ppm PIEL	
· Additional info	rmation: The lists that were valid during the creation were used as basis.	
General protect The usual protect Keep away from Immediately ren Wash hands be Do not inhale ga Avoid contact w Engineering co Breathing equi Use suitable res	ctive equipment: tive and hygienic measures: nutionary measures for handling chemicals should be followed. nove all soiled and contaminated clothing. fore breaks and at the end of work. ases / fumes / aerosols. ith the eyes and skin. ontrols: No further relevant information available.	
	, ,,	(Contd. on page 7)

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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 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:

Contact lenses should not be worn.



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

Appearance: Form: Color:	Liquid According to product specification	
Odor: Odor threshold:	Amine-like Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. > 149 °C (> 300 °F)	
Flash point:	> 94 °C (> 201 °F) (Closed Cup)	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	>150 °C (>302 °F) (Estimate)	
Decomposition temperature:	Not determined.	(Contd. on page

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		(Contd. of page 7)
· Auto igniting:	Product is not self-igniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
<ul> <li>Explosion limits:</li> <li>Lower:</li> <li>Upper:</li> <li>Oxidizing properties</li> </ul>	Not determined. Not determined. Non-oxidizing.	
· Vapor pressure at 93.3 °C (200 °F):	~ 1.3 hPa (~ 1 mm Hg)	
<ul> <li>Density at 20 °C (68 °F):</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	0.99 g/cm³ (8.262 lbs/gal) Not determined. Not determined. Not determined.	
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Partly soluble.	
Partition coefficient (n-octanol/water	: Not determined.	
<ul> <li>Viscosity:</li> <li>Dynamic:</li> <li>Kinematic:</li> <li>Other information</li> </ul>	Not determined. Not determined. 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 Toxic fumes may be released if heated above the decomposition point. Strong exothermic reaction with acids. Reacts with oxidizing agents. Reacts with aluminium at raised temperatures. 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
- Nitrogen oxides

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1 Toxico	logical information
· Informa · Acute to	ion on toxicological effects xicity:
· LD/LC5	values that are relevant for classification:
100-51-6	Benzyl alcohol
Oral	_D50 1230 mg/kg (rat)
Dermal	_D50 2000 mg/kg (rabbit)
112-57-2	3,6,9-triazaundecamethylenediamine
Dermal	D50 660 mg/kg (rabbit)
111-40-(	2,2'-iminodiethylamine
Oral	_D50 1080 mg/kg (rat)
Dermal	_D50 1090 mg/kg (rabbit)
80-05-7	pisphenol A
	_D50 3250 mg/kg (rat)
Dermal	_D50 3000 mg/kg (rabbit)
	irritant effect:
	kin: Caustic effect on skin and mucous membranes.
	<b>/e:</b> Strong caustic effect.
	ation: Sensitization possible through skin contact.
	e to chronic toxicity: No further relevant information available.
· Additior	al toxicological information:
Harmful	
Corrosiv	•
Irritant	
	nrough skin absorption.
	ng will lead to a strong caustic effect on mouth and throat and to the danger of perforation o
	us and stomach.
Toxic an	d/or corrosive effects may be delayed up to 24 hours.
	genic categories
•	tional Toxicology Program)
None of	he ingredients is listed.
	a (Occupational Safety & Health Administration)
	he ingredients is listed.
	e Routes of Exposure
Ingestion	
Inhalatio	
Eye cont Skin con	
	fects (acute toxicity, irritation and corrosivity):
	fswallowed
Causes	f swallowed. evere skin burns and eve damage.
	f swallowed. evere skin burns and eye damage. f inhaled.
Harmful	evere skin burns and eye damage.

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

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

### · 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

100-51-6 Benzyl alcohol

LC50 460 mg/l (pimephales promelas)

- 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.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

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:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. 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. • Waste disposal key: EPA RCRA Code (USA) : D002.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

### **14 Transport information**

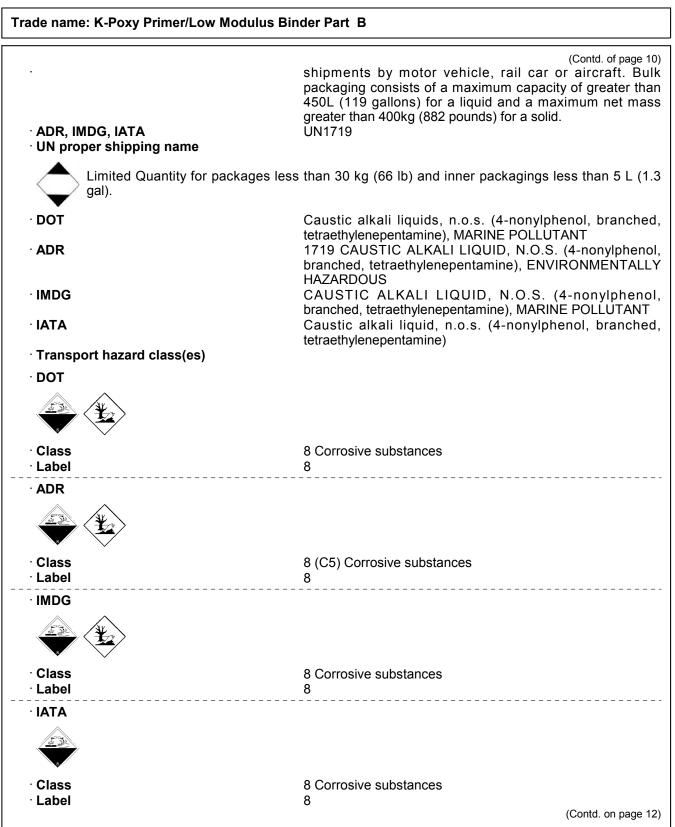
· UN-Number · DOT

### UN1719

Product is additionally classified as a MARINE POLLUTANT based on MARPOL and DOT rules. Labeling as a MARINE POLLUTANT is not required for non-bulk single package (Contd. on page 11)

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	(Contd. of page 1
Packing group	
DOT, ADR, IMDG, IATA	111
Environmental hazards:	
Marine pollutant:	Yes
·	Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler):	80
EMS Number:	F-A,S-B
Segregation groups	Alkalis
Transport in bulk according to Ann	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
Remarks:	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":	UN1719, Caustic alkali liquids, n.o.s. (4-nonylphen
J.	branched, tetraethylenepentamine), ENVIRONMENTALI
	HAZARDOUS, 8, IIÍ
Regulatory information	

United States (USA)
SARA
Section 355 (extremely hazardous substances): None of the ingredients is listed.
Section 313 (Specific toxic chemical listings): 80-05-7 bisphenol A
TSCA (Toxic Substances Control Act): All ingredients are listed.

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-	on 65 (California)
	s known to cause cancer:
	e ingredients are listed.
	s known to cause reproductive toxicity for females:
None of the	e ingredients are listed.
Chemicals	s known to cause reproductive toxicity for males:
None of the	e ingredients is listed.
Chemicals	s known to cause developmental toxicity:
None of the	e ingredients is listed.
-	enic categories
•	ronmental Protection Agency)
None of the	e ingredients is listed.
IARC (Inte	rnational Agency for Research on Cancer)
None of the	e ingredients is listed.
TLV (Thre	shold Limit Value established by ACGIH)
None of the	e ingredients is listed.
NIOSH-Ca	(National Institute for Occupational Safety and Health)
None of the	e ingredients is listed.
-	nt to Know Listings
	e ingredients is listed.
	substance listings:
	Domestic Substances List (DSL)
All ingredie	ents are listed.
	Ingredient Disclosure list (limit 0.1%)
111-40-0	2,2'-iminodiethylamine
Canadian	Ingredient Disclosure list (limit 1%)
	Benzyl alcohol
I	3,6,9-triazaundecamethylenediamine
80-05-7	bisphenol A

· 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 / -

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

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 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Acute Tox. 4: Acute toxicity, Hazard Category 4 Acute Tox. 2: Acute toxicity, Hazard Category 2 Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Repr. 2: Reproductive toxicity, Hazard Category 2 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 · 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