

Printing date 07/06/2017 Reviewed on 07/06/2017

#### 1 Identification

- · Product identifier

  - Trade name: EP950NMF
     Application of the substance / the mixture One part, heat cured epoxy adhesive
- Details of the supplier of the safety data sheet Manufacturer/Supplier:

ResinLab, LLC
N109 W13300 Ellsworth Drive
Germantown, WI 53022
1-877-259-1669

Information Department: Product Safety Department: msds@resinlab.com
Information Department: Product Safety Department: msds@resinlab.com
Emergency Telephone Number:
North America - Chemtrec: 1-800-424-9300 (24 hours)
International - Chemtrec: 01-703-527-3887 (24 hours)

#### 2 Hazard(s) identification

Classification of the substance or mixture

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.

- · 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-(epichlorohydrin) epoxy resin

Fehuron

- Hazard statements
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.
  H317 May cause an allergic skin reaction.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves / eye protection / face protection.

IF ON SKIN: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Wash contaminated clothing before reuse.

Dispose of contents (container in accordance with local/regional/national/international regulations).

Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
   NFPA System
   NFPA ratings (scale 0 4)



Health = 2*Fire* = 1 Reactivity = 0

NFPA special hazards (water reactivity and oxidizing property): None

HMIS System HMIS-ratings (scale 0 - 4)



Health = 2Fire = 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

· Dangerous components:		
CAS: 25068-38-6 NLP: 500-033-5 Index number: 603-074-00-8	Bisphenol-A-(epichlorohydrin) epoxy resin Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	50-60%
CAS: 1317-65-3 EINECS: 215-279-6 RTECS: EV 9580000	Calcium Carbonate	20-30%
CAS: 67762-90-7 EC number: 614-122-2	Siloxanes and Silicones, di-Me, reaction products with silica	2.5-5%
CAS: 101-42-8 EINECS: 202-941-4	Fenuron	1-2.5%
CAS: 14808-60-7 EINECS: 238-878-4 RTECS: VV 7330000	Quartz	0.1-1%
CAS: 1333-86-4 EINECS: 215-609-9 RTECS: FF5800000	Carbon black	0-<0.1%

Additional information:

If the chemical name/CAS number is proprietary and or weight percentage is listed as a range, the specific chemical identity and or percentage of composition has been withheld as a trade secret.

### 4 First-aid measures

**Description of first aid measures General information:** Keep warm, position comfortably and cover well.

After inhalation:

Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing. Supply fresh air and if symptoms occur call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

If skin irritation or rash occurs, get medical advice/attention.

After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Remove contact lenses if present and easy to do so; continue rinsing.

After swallowing:

River swallowing.

If victim is unconscious; never give anything by mouth.

Rinse out mouth and then drink plenty of water.

Get medical attention if you feel unwell.

Information for doctor:

- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed Check section 11 Toxicological Information for further relevant information.

#### 5 Fire-fighting measures

Extinguishing media
Suitable extinguishing agents:
Use fire fighting measures that suit the environment.
Alcohol resistant foam

Fire-extinguishing powder

Carbon dioxide

water fog
Special hazards arising from the substance or mixture
Will not burn unless preheated.
In case of fire, the following can be released:

Aldehydes Phenolics

Nitrogen oxides (NOx)
Carbon dioxide (CO₂) and Carbon monoxide (CO)
Advice for firefighters

Protective equipment:
If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156).

As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.

#### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.

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

Methods and material for containment and cleaning up:

For large spills: provide diking or containment to minimize spreading. If possible pump and store material in appropriate container. For small spills: Ventilate and wash area. Collect spills and absorbant material in appropriate container. Ensure adéquate ventilation.

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Allow molten product to cool.

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

### 7 Handling and storage

Handling:
 Precautions for safe handling
 Ensure good ventilation/exhaustion at the workplace.
 Prevent formation of aerosols.
 Keep away from incompatible material(s).
 Avoid any release into the environment.
 For industrial or professional use only
 Do not breathe dust/fumes/mist/vapor/spray.
 Avoid contact with eyes, skin and clothing.

Avoid contact with eyes, skin and clothing. Keep away from heat,sparks, flames and ignition sources. Observe all the personal protection requirements in Section 8.

· Conditions for safe storage, including any incompatibilities

Storage:
Requirements to be met by storerooms and receptacles:

Provide ventilation for receptacles. Keep stored in accordance with local, regional, national, and international regulations.

#### 8 Exposure controls/personal protection

· Control parameters

· Compo	· Components with limit values that require monitoring at the workplace:		
1317-65-3 (	Calcium Carbonate		
TEEL	Short-term value: 15.0 mg/m³ Long-term value: 60.0 mg/m³ SCAPA, 2008		
67762-90-7	67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica		
OSHA PEL	Short-term value: 15 mg/m³		
US ACGIH   Short-term value: 10 mg/m³			
101-42-8 F	101-42-8 Fenuron		
ACGIH Short-term value: 10 mg/m³ 10mg/m3 inhalable and 3mg/m3 respirable			
14808-60-7	14808-60-7 Quartz		
PEL see Quartz listing			
REL	Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A		
TLV	Long-term value: 0.025* mg/m³ *as respirable fraction		
1333-86-4 (	1333-86-4 Carbon black		
PEL	Long-term value: 3.5 mg/m³		
REL	Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C		
TLV	Long-term value: 3* mg/m³ *inhalable fraction		

Additional Occupational Exposure Limit Values for possible hazards during processing: None.

Exposure controls

If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment:

General protective and hygienic measures:
Be sure to clean skin thoroughly after work and before breaks.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.

Avaid contact with the curso and skin. Avoid contáct with the eyes and skin.

Personal Protective Equipment (PPE)

Breathing equipment:
Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended

exposure limits.

Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use.

Protection of hands:

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

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## Safety Data Sheet acc. to OSHA HCS

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· Material of gloves



Chemical resistant gloves

Eye protection:



Safety Glasses with side shields

Body protection: Appropriate chemical resistant clothing.
 Limitation and supervision of exposure into the environment
 The Engineering measures or controls, and PPE recommendations are only guidelines and may not apply to every situation. For additional information, please consult the corresponding requirements under OSHA 29 CFR 1910.94-95, and 29 CFR 1910.132-138.

9 Physical and chemical properti	es es
Information on basic physical and cherong General Information Appearance: Form: Color: Odor: Odor: Odor threshold:	
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.
· Flash point:	>200 °C (>392 °F)
· Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	Not determined.
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: · Lower: · Upper:	Not determined. Not determined.
· Vapor pressure: · Vapor Density:	Not determined. not determined
Density at 20°C (68°F): Relative density Vapor density Evaporation rate	1.4 g/cm³ (11.683 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wate	er): Not determined.
Viscosity: Dynamic: Kinematic: VOC content:	Not available. Not available. 0.0 g/l / 0.00 lb/gl

### 10 Stability and reactivity

- · Reactivity Not a regulated physical hazard under GHS.
- Hazardous Reactivity and Chemical Stability Stable under normal conditions of use, storage and temperatures.
   Thermal decomposition / conditions to be avoided:
   To avoid thermal decomposition do not overheat.
   No decomposition if used and stored according to specifications.
   Possibility of hazardous reactions In contact with incompatible materials.
   Conditions to avoid Keep away from heat, sparks, flame and any other ignition sources.
   Incompatible materials:
   Oxidizing agents

Oxidizing agents Mercaptans Acids

**Amines** 

Bases (Alkalis)
Hazardous decomposition products:

Possible in traces. Refer to section 5.

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· Additional information:

As long as the prescribed application concentrations are maintained there is no danger that stable emulsions will form.

#### 11 Toxicological information · Information on toxicological effects Acute toxicity: • LD/LC50 values that are relevant for classification: Not a classified acute oral hazard. 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin Oral LD50 11400 mg/kg (rat) 20000 mg/kg (rabbit) (Test guideline not available) Dermal LD50 Inhalative LC50/4 h (Test species: n/a) (Toxicity not expected based on the acute oral data) 1317-65-3 Calcium Carbonate Oral LD50 6450 mg/kg (rat) Dermal LD50 No data available. LC50/4 h No data available. Inhalative 461-58-5 Cyanoguanidine > 30000 mg/kg (rat) (LD0; no death observed) LD50 Oral LD50 (rabbit) (LD0 (OECD TG 402) > 2000 mg/kg; no death occurred) Dermal Inhalative LC50/4 h (rat) (OECD TG 403) 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica Oral LD50 >5000 mg/kg (rat) (test method not specified) Dermal LD50 (Test species: n/a) (Toxicity not expected based on acute oral data) Inhalative LC50/4 h (Test species: n/a) (Toxicity not expected based on acute oral data) 101-42-8 Fenuron Oral LD50 6400 mg/kg (rat) >8000 mg/kg (rat) Reference: Vendor SDS 2014 Dermal LD50 Inhalative LC50/4 h (No data available) Specific symptoms in biological assay: Not a classified acute dermal hazard. Primary irritant effect: Not a classified acute inhalative hazard. on the skin: Irritant to skin and mucous membranes. on the eye: Irritating effect. Sensitization: Sensitization possible through skin contact. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations:

· Card	cinogenic categories	
• ,	IARC (International Agency for Research on Cancer)	
14808-60-7	Quartz	1
7631-86-9	silicon dioxide, chemically prepared	3
1333-86-4	Carbon black	2B
• ,	NTP (National Toxicology Program)	
14808-60-7	Quartz	K
•	OSHA-Ca (Occupational Safety & Health Administration)	
None of the	ingredients is listed.	

· Toxic	
	quatic toxicity:
25068	3-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin
	irritating mg/kg (rabbit)
	65-3 Calcium Carbonate
EC50	moderately mg/kg moderately mg/kg (rabbit) (Draize test)
	moderation markey (character tool)
	8-5 Cyanoguanidine
EC50	8-5 Cyanoguanidine   mildly irrit. mg/kg (rabbit) (Patch test and Draize test)
EC50	8-5 Cyanoguanidine
EC50 <b>67762</b>	8-5 Cyanoguanidine   mildly irrit. mg/kg (rabbit) (Patch test and Draize test)
EC50 67762 EC50 101-4	8-5 Cyanoguanidine   mildly irrit. mg/kg (rabbit) (Patch test and Draize test)   Patch test and
EC50 67762 EC50 101-4	8-5 Cyanoguanidine   mildly irrit. mg/kg (rabbit) (Patch test and Draize test) 2-90-7 Siloxanes and Silicones, di-Me, reaction products with silica   Non-irritating mg/kg (Test species: n/a) (Primary irritation index=0)





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- Persistence and degradability No further relevant information available.
   Behavior in environmental systems:

   Bioaccumulative potential No data available.
   Mobility in soil No further relevant information available.

   Additional ecological information: The product is non-rapid degradable, and low or not highly bioaccumulative. Additional ecological information: The product is non-rapid degradable, and lot 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.

  Results of PBT and vPvB assessment

  PBT: None of the ingredients is listed.

  vPvB: None of the ingredients is listed.

  Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods

Recommendation:
Must be specially treated adhering to official regulations.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings: Recommendation: Dispose of according to your local waste regulations.

(epichlorohydriń)epoxy resin) not regulated ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII N.O.S. (Bisphenol-A-(epichlorohydrin) epoxy resin)  Transport hazard class(es)  DOT Class not regulated  IMDG, IATA  Class  Class Substances and articles  9 Miscellaneous dangerous substances and articles 9		
DOT	Transport information	
DOT	· UN-Number	
UN proper shipping name DOT IMDG, IATA  Transport hazard class(es) DOT Class IMDG, IATA  Class IMDG, IATA  Class IMDG, IATA  Polyther in the proper shipping name (epichlorohydrin) epoxy resin)  Class IMDG, IATA  Class Implication in the regulated  Model Regulation":  Environmentally hazardous substance, liquid, N.O.S. (Bisphenol-A-(epichlorohydrin) epoxy resin)  Polyther in the proper substances and articles  9 Miscellaneous dangerous substances and articles 9 Miscellaneous dangerous substances and articles 9 Miscellaneous dangerous substances and articles 9 Miscellaneous dangerous substances: Bisphenor A-(epichlorohydrin) epoxy resin  Product contains environmentally hazardous substances: Bisphenor A-(epichlorohydrin) epoxy resin  Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F  Transport in bulk according to Annex II of MARPOL7378 and the IBC Code  IBC Code  Image of the product contains environmentally hazardous substances: Bisphenor A-(epichlorohydrin) epoxy resin  Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F  Transport in bulk according to Annex II of MARPOL7378 and the IBC Code  IBC Code  Image of transportation and may be shipped unrestricted.  IMDG Limited quantities (LQ) Excepted quantities (EQ)  Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml  UN "Model Regulation":  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE.  LIQUID. N.O. S. (BISPHOLA-L-(EPICHLOROHYDRIN) EPOX	· DOT	not regulated
(epichlorohydrin)epoxy resin) not regulated ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID NO.S. (Bisphenol-A-(epichlorohydrin) epoxy resin)  POT Class IMDG, IATA  Class IMDG, IATA  Packing group DOT NIDG, IATA  INDG, IATA  Environmental hazards:  Product contains environmentally hazardous substances: Bisphenol A-(epichlorohydrin) epoxy resin  Product contains environmentally hazardous substances: Bisphenol A-(epichlorohydrin) epoxy resin  Product contains environmentally hazardous substances: Bisphenol A-(epichlorohydrin) epoxy resin  Special precautions for user Danger code (Kemler): EMS Number: Stowage Category  Transport in bulk according to Annex II of MARPOLT3/T8 and the BC Code  Transport in bulk according to Annex II of MARPOLT3/T8 and the BC Code  Transport (Additional information: DOT Remarks: Primary packs of less than 5L can are unregulated by the mode of transportation and may be shipped unrestricted.  IMDG Limited quantities (LQ) Excepted quantities (EQ)  Excepted quantities (EQ)  Limited quantities (EQ)  Limited quantities (LQ) Limited quantities (EQ)  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE.	· IMDG, IATA	UN3082
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Transport hazard class(es)  DOT Class IMDG, IATA  IMDG, IATA  Packing group DOT IMDG, IATA  IMDG, IATA  Product contains environmentally hazardous substances: Bisphene A-(epichlorohydrin) epoxy resin  Packing group DOT IMDG, IATA  Environmental hazards:  Special precautions for user Danger code (Kemler): EMS Number: Stowage Category  Transport hazards:  Product contains environmentally hazardous substances: Bisphene A-(epichlorohydrin) epoxy resin  Warning: Miscellaneous dangerous substances and articles F-A,S-F  Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  Transport/Additional information: DOT Remarks: Primary packs of less than 5L can are unregulated by the mode of transportation and may be shipped unrestricted.  IMDG Limited quantities (LQ) Excepted quantities (EQ)  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOX.		NOT regulated  ENVIDONMENTALLY HAZADDOUS SUBSTANCE LIQUII
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Danger code (Kemler): EMS Number: Stowage Category  Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.  Transport/Additional information: DOT Remarks: Primary packs of less than 5L can are unregulated by the mode of transportation and may be shipped unrestricted.  IMDG Limited quantities (LQ) Excepted quantities (EQ) UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE: LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOX	· Environmental hazards:	Product contains environmentally hazardous substances: Bisphend A-(epichlorohydrin) epoxy resin
Danger code (Kemler): EMS Number: Stowage Category  Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.  Transport/Additional information: DOT Remarks: Primary packs of less than 5L can are unregulated by the mode of transportation and may be shipped unrestricted.  IMDG Limited quantities (LQ) Excepted quantities (EQ) UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE: LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOX	· Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Stowage Category  Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  Not applicable.  Transport/Additional information:  DOT  Remarks:  Primary packs of less than 5L can are unregulated by the mode of transportation and may be shipped unrestricted.  IMDG  Limited quantities (LQ) Excepted quantities (EQ)  Excepted quantities (EQ)  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOX	Danger code (Kemler):	90.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  Not applicable.  Transport/Additional information:  DOT Remarks: Primary packs of less than 5L can are unregulated by the mode of transportation and may be shipped unrestricted.  IMDG Limited quantities (LQ) Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE: LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOX		F-A,S-F
IBC Code Not applicable.  Transport/Additional information:  DOT Remarks: Primary packs of less than 5L can are unregulated by the mode of transportation and may be shipped unrestricted.  IMDG Limited quantities (LQ) Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOX		A
Transport/Additional information:  DOT Remarks: Primary packs of less than 5L can are unregulated by the mode of transportation and may be shipped unrestricted.  IMDG Limited quantities (LQ) Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml  UN "Model Regulation": UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE: LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOX		
• DOT • Remarks:  Primary packs of less than 5L can are unregulated by the mode of transportation and may be shipped unrestricted.  • IMDG • Limited quantities (LQ) • Excepted quantities (EQ)  Excepted quantities (EQ)  • UN "Model Regulation":  Primary packs of less than 5L can are unregulated by the mode of transportation and may be shipped unrestricted.  5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml  • UN "Model Regulation":  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE: LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOX	· Transport/Additional information:	
Primary packs of less than 5L can are unregulated by the mode of transportation and may be shipped unrestricted.  IMDG Limited quantities (LQ) Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE: LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOX	•	
• IMDG  • Limited quantities (LQ) • Excepted quantities (EQ)  • Excepted quantities (EQ)  • With a contract of the contract of		Primary packs of less than 5L can are unregulated by th
Limited quantities (LQ) Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOX		mode of transportation and may be shipped unrestricted.
• Excepted quantities (EQ)  Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml  • UN "Model Regulation":  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE: LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOX		
Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE. LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOX	· Limited quantities (LQ)  Excepted quantities (EQ)	
• UN "Model Regulation":  UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE.  LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOX	· Excepted quantities (EQ)	Maximum net quantity per inner packaging: 30 ml
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE. LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOX		Maximum net quantity per outer packaging: 1000 ml
LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOX	· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE:
RESIN), 9, III		LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOX
		RESIN), 9, III



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, Satety hee	th and environmental regulations/legislation specific for the substance or mixture		
	SARA Section 355 (extremely hazardous substances):		
	ingredients is listed.		
	SARA Section 313 (Specific toxic chemical listings):		
	ingredients is listed.		
	A Section 311/312 (Hazardous Chemical Inventory Reporting)		
	Bisphenol-A-(epichlorohydrin) epoxy resin	A. C	50-60
	Calcium Carbonate		20-30
1333-86-4	Carbon black		0-<0.
	Hazard Abbreviations for SARA 311/312		
	A - Acute Health Hazard		
	C - Chronic Health Hazard F - Fire Hazard		
	- The Hazard - Reactive Hazard		
	S - Sudden Release of Pressure Hazard		
	A (Toxic Substances Control Act):		
	Bisphenol-A-(epichlorohydrin) epoxy resin		
	Calcium Carbonate		
	Cyanoguanidine Siloxanes and Silicones, di-Me, reaction products with silica		
101-42-8			
14808-60-7			
	silicon dioxide, chemically prepared		
	Carbon black		
	position 65		
•	<b>Chemicals known to cause cancer:</b> This product may also contain extremely small amounts of one or more naturally occurring materials known the contain extremely small amounts.	wn to th	e Stati
	California to cause cancer, birth defects or other reproductive harm.	wii to tii	C Olan
14808-60-7			
	Carbon black		
	1-chloro-2,3-epoxypropane		
	Chemicals known to cause reproductive toxicity for females:		
	ingredients is listed.		
	Chemicals known to cause reproductive toxicity for males:		
	chloro-2,3-epoxypropane		
	Chemicals known to cause developmental toxicity:		
None of the	ingredients is listed.		
· Card	cinogenic categories		
	EPA (Environmental Protection Agency)		
	ingredients is listed.		
	TLV (Threshold Limit Value established by ACGIH)		
14808-60-7			/
	Carbon black		/
	NIOSH-Ca (National Institute for Occupational Safety and Health)		
14808-60-7	Quartz		
	ional Regulation Lists		
	Chinese Chemical Inventory of Existing Chemical Substances:		
	Bisphenol-A-(epichlorohydrin) epoxy resin		
	Calcium Carbonate		
401-00-5 67762-00-7	Cyanoguanidine Siloxanes and Silicones, di-Me, reaction products with silica		
101-42-8			
14808-60-7	Quartz		
7631-86-9	silicon dioxide, chemically prepared		
1333-86-4	Carbon black		
GHS	S label elements GHS label elements		
· Nati	onal regulations:		
٠,	Japanese Existing and New Chemical Substance List:		
	Bisphenol-A-(epichlorohydrin) epoxy resin		
1317-65-3	Calcium Carbonate		
461-58-5	Cyanoguanidine		
67762-90-7 101-42-8	Siloxanes and Silicones, di-Me, reaction products with silica		
101-42-8 14808-60-7			
	silicon dioxide, chemically prepared		
7631-86-9	silicon dioxide, chemically prepared Carbon black		



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	(Contd. of page 7)
	Korean Existing Chemical Inventory:
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin
1317-65-3	Calcium Carbonate
461-58-5	Cyanoguanidine
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
101- <b>4</b> 2-8	
14808-60-7	
	silicon dioxide, chemically prepared
1333-86-4	Carbon black
	European Pre-registered substances:
	Bisphenol-A-(epichlorohydrin) epoxy resin
	Calcium Carbonate
461-58-5	Cyanoguanidine
	Siloxanes and Silicones, di-Me, reaction products with silica
101- <b>4</b> 2-8	
14808-60-7	
	silicon dioxide, chemically prepared
1333-86-4	Carbon black
	REACh - Substances of Very High Concern (SVHC) List:
None of the	ingredients is listed.
	Restriction of Hazardous Substances Directive (RoHS) list:
	ingredients is listed.
Chemical s	afety 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.

- Department Issuing (M)SDS: Product Development Department
   Contact: msds@resinlab.com
   Date of preparation / last revision 07/06/2017 / 3
   \* Data compared to the previous version altered.