



Printing date 06/05/2017 Reviewed on 06/05/2017

### 1 Identification

- · Product identifier
  - Trade name: EP950G
  - 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
   Supplies WI 52022

Germantown, WI 53022 1-877-259-1669

www.resinlab.com

- WWW.Tesiniab.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

Fenuron

Fenuron

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.

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.

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



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

· HMIS System · HMIS-ratings (scale 0 - 4)



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

US





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### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Dangerous components	s:	
CAS: 25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	50-60%
Index number: 603-074-00-8	Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
CAS: 7429-90-5 EINECS: 231-072-3 Index number: 013-001-00-6 RTECS: BD 0330000	Aluminum Flam. Sol. 2, H228; Water-react. 2, H261	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%

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. Immediately remove any clothing soiled by the product.

After inhalation:

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:

Immediately wash with water and soap and rinse thoroughly.

Remove contaminated clothing and shoes. If skin rash or irritation occurs, seek medical advice.

After eye contact:

Flush eyes with water for 15 minutes occasionally lifting the upper and lower eyelids. Check for and remove contact lenses. Seek medical advice.

After swallowing:

If victim is unconscious; never give anything by mouth.
If victim is conscious rinse mouth and give small amounts 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:
Alcohol resistant foam

Fire-extinguishing powder Carbon dioxide

For safety reasons unsuitable extinguishing agents: Water with full jet Special hazards arising from the substance or mixture in case of fire, the following can be released:

Phenolic compounds
Nitrogen oxides (NOx)
Formaldehyde, a skin and lung sensitizer and a regulated carcinogen, may be formed during fires.
Carbon dioxide (CO<sub>2</sub>) 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

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 product to reach sewage system or any water course.

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

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. 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.

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.
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

Components with limit values that require monitoring at the workplace:

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 Fenuron

**ACGIH** 

Short-term value: 10 mg/m³ 10mg/m3 inhalable and 3mg/m3 respirable

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

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. Avoid contact 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 state of the production of the pr

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



Chemical resistant gloves

Eye protection:



Safety Glasses with side shields

Body protection: Appropriate chemical resistant clothing.
Limitation and supervision of exposure into the environment

No further relevant information.

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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
Information on basic physical and cher General Information Appearance:	mical properties
Form:	Pasty
: Color:	Greý
· Odor: · Odor threshold:	Mild epóxy odor Not determined.
pH-value:	Not determined.
· Change in condition	Not determined.
Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.
· Flash point:	>93 °C (>199 °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.
<ul> <li>Partition coefficient (n-octanol/wate Henry's Law Constant:</li> </ul>	er): Not determined. Not determined.
· Viscosity: · Dynamic: · Kinematic: · VOC content:	Not determined. Not determined. 0.0 g/l / 0.00 lb/gl

### 10 Stability and reactivity

- 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:
  Water

  Nitrales

Nitrates

Oxidizing agents

Mercaptans Acids

Amines

Bases (Alkalis)
Hazardous decomposition products:
Possible in traces.

Refer to section 5.

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.





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		ol-A-(epichlorohydrin) epoxy resin
Oral	LD50	11400 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit) (Test guideline not available)
Inhalative	LC50/4 h	(Test species: n/a) (Toxicity not expected based on the acute oral data)
7429-90-5	Aluminur	
Oral	LD50	> 15900 mg/kg (rat) (OECD TG 401) No death; no changes in gross pathology or clinical signs. Reference: ECHA (2011).
Dermal	LD50	(No data available) Based on the acute oral toxicity test, it was expected that toxicity to mammals via dermal application of the substar was not a significant concern and resulted in a similar lack of acute toxicity. Thus, the substance was not classified an acute dermal hazard.
		(No data available) Due to wetted form of the substance, inhalative effects from dust form can be seen as negligible. Meanwhile, bas on the acute oral toxicity test, it was expected that toxicity to mammals via inhalation of the substance was no significant concern and resulted in a similar lack of acute toxicity. Thus, the substance was not classified as an ac inhalation hazard.
461-58-5 (		nidine
Oral	LD50	> 30000 mg/kg (rat) (LD0; no death observed) Reference: OECD SIDS (2004).
Dermal	LD50	(rabbit) (LD0 (OECD TG 402) > 2000 mg/kg; no death occurred) At 2000 mg/kg, no mortality or any clinical signs appeared. Reference: ECHA (2011).
Inhalative	LC50/4 h	(rat) (OECD TG 403)  The substance did not cause mortality or any noticeable deleterious effects after a four-hour exposure with saturated dispersion of 259 mg/m³ to rats; the substance dust therefore had a very low acute inhalation toxic potential.  Reference: ECHA (2011).
67762-90-	7 Siloxane	es 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 F	enuron	
Oral	LD50	6400 mg/kg (rat)
Dermal	LD50	>8000 mg/kg (rat) Reference: Vendor SDS 2014

- 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:

Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

### 12 Ecological information

· Toxicity

· Aquatic toxicity:

25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin

EC50 irritating mg/kg (rabbit)

7429-90-5 Aluminum

EC50 not irritating mg/kg (rabbit) (OECD TG 404) Erythema and edema: 0 (Mean score of all treated animals; Time point: 24+48+72 hrs); the substance was not irritating to skin. Reference: ECHA (2011).

461-58-5 Cyanoguanidine

EC50 mildy irrit. mg/kg (rabbit) (Patch test and Draize test)
Erythema (intact skin): 0.2 (Max. 1; mean score of all treated animals; time point: 24 hrs); fully reversible within 72 hrs.
Erythema (abraded skin): 0.3 (Max. 1; mean score of all treated animals; time point: 24 hrs); fully reversible within 72 hrs.
Edema (both intact and abraded skin): 0 (Max. 1; mean score of all treated animals; time point: 24 hrs); the substance was not irritating to rabbit skin based on the criteria.

(guinea pig)
Slight irritation was found in pigs at 24 hours after application; the substance was therefore classified as a mild dermal (Category 3).
Reference: ECHA (2011) and OECD SIDS (2004).

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67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica EC50 | Non-irritating mg/kg (Test species: n/a) (Primary irritation index=0)

101-42-8 Fenuron

(guinea pig)
There were practically non-irritating effects to intact skin, but only moderate irritation to abraded skin observed in guinea pigs. Reference: ACToR (2011).

Persistence: ACTOR (2011).

Persistence and degradability No further relevant information available.
Other information: The product is easily biodegradable.
Behavior in environmental systems:
Bioaccumulative potential No data available.
Mobility in soil No further relevant information available.
Ecotoxical effects:
Perset: Toxic for fish

Remark: Toxic for fish
Additional ecological information: The product is non-rapid degradable, and low or not highly bioaccumulative.
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

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.

UN-Number	
· DOT · IMDG, IATA	not regulated UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, N.O.S. (Bisphenol
· IMDG, IATA	(epichlorohydrin)epoxy resin) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQU N.O.S. (Bisphenol-A-(epichlorohydrin) epoxy resin)
Transport hazard class(es)	
· IMDG, IATA	
· Class · Label	9 Miscellaneous dangerous substances and articles 9
Packing group	med are maked and
· DOT · · IMDG, IATA	not regulated III
Environmental hazards:	Product contains environmentally hazardous substances: Bisphere
· Marine pollutant:	A-(epichlorohydrin) epoxy resin ´ Yes
Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Danger code (Kemler): EMS Number:	90 F-A,S-F
· Stowage Category	г-A,3-г A
Transport in bulk according to Annex II of MARPIBC Code	OL73/78 and the Not applicable.
Transport/Additional information:	, ,
· IMDG · Limited quantities (LQ)	5L
•	(Contd. on page



20-30%

A4

A, C 50-60%



### Safety Data Sheet acc. to OSHA HCS

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· 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 SUBSTANCES, LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOXY RESIN), 9, III

### 15 Regulatory information

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

SARA Section 355 (extremely hazardous substances):

None of the ingredients is listed.

SARA Section 313 (Specific toxic chemical listings):

7429-90-5 Aluminum

· SARA Section 311/312 (Hazardous Chemical Inventory Reporting) 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin

· Hazard Abbreviations for SARA 311/312

A - Acute Health Hazard
C - Chronic Health Hazard
F - Fire Hazard
R - Reactive Hazard
S - Sudden Release of Pressure Hazard

TSCA (Toxic Substances Control Act):

All ingredients are listed.

Proposition 65

Chemicals known to cause cancer:

106-89-8 Epichlorohydrin This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

106-89-8 1-chloro-2,3-epoxypropane

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH) 7429-90-5 Aluminum

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

International Regulation Lists

Chinese Chemical Inventory of Existing Chemical Substances:

All ingredients are listed.

GHS label elements GHS label elements

· National regulations:

Japanese Existing and New Chemical Substance List:

All ingredients are listed

Korean Existing Chemical Inventory:

All ingredients are listed

European Pre-registered substances:

All ingredients are listed.

REACh - Substances of Very High Concern (SVHC) List:

None of the ingredients is listed.

Restriction of Hazardous Substances Directive (RoHS) list:

None of the ingredients is listed.

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

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 06/05/2017 / 5
  - \* Data compared to the previous version altered.