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1 Identification

Product identifier

Trade name: EP1295 Black A Application of the substance / the mixture Epoxy Resin

Details of the supplier of the safety data sheet Manufacturer/Supplier:

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

- Www.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.
- Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2_ H373 May cause damage to the adrenal glands through prolonged or repeated exposure. Route of exposure: Oral.

· 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 Triary[phosphate isopropy]ated Alkyl (C12, C14) glycidyl ether 1,1,1-trimethylo[propane triacry]ate Hazard statements H215 Courses ethin irritation

- Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to the adrenal glands through prolonged or repeated exposure. Route of exposure: Oral.

- Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling.

- vvasn tnorougnly atter nandling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/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 exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eve irritation presists: Get medical advice/attention.
- If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse.
- Store locked up.

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



Other hazards

Results of PBT and vPvB assessment • PBT: Not applicable.



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vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization:	Mixtures	
 Dangerous components 	S:	
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	25-30%
CAS: 68937-41-7 EINECS: 273-066-3	Triarylphosphate isopropylated Repr. 2, H361; STOT RE 2, H373 Aquatic Acute 1, H400; Aquatic Chronic 2, H411	10-20%
CAS: 68609-97-2 EINECS: 271-846-8 Index number: 603-103-00-4	Alkyl (C12, C14) glycidyl ether Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	5-<10%
CAS: 15625-89-5 EINECS: 239-701-3 Index number: 607-111-00-9 RTECS: AT 4810000	1,1,1-trimethylolpropane triacrylate Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	5-<10%
CAS: 67762-90-7 EC number: 614-122-2	Siloxanes and Silicones, di-Me, reaction products with silica	0.1-1%
CAS: 1333-86-4 EINECS: 215-609-9 RTECS: FF5800000	Carbon black	0.1-1%

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: Immediately under with unfor and case and rises thereughly.

- Immediately wash with water and soap and rinse thoroughly.
- Remove contaminated clothing and shoes. If skin irritation or rash occurs, get medical advice/attention.
- After eye contact:

Immediately flush opened eyes with water for 5 minutes, then remove contact lenses if present, continue flushing for at least another 15 minutes

minutes. If symptoms develop seek medical attention. **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
- 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: Suitable extinguishing agents: Use fire fighting measures that suit the environment. Alcohol resistant foam Fire-extinguishing powder Carbon diavido Carbon dioxide water fog Water spray Water spray
 For safety reasons unsuitable extinguishing agents: Water with full jet
 Special hazards arising from the substance or mixture
 May spontaneously polymerize during fire or high temperatures generating massive heat and pressure.
 In case of fire, the following can be released:
 Nitrogen oxides (NOx)
 Carbon dioxide (CO₂) and Carbon monoxide (CO)
 Phenolic compounds
 Aluminum oxide (AL O) dust a serious respiratory irritant, may be formed during fires Aluminum oxide (Al₂O₂) dust, a serious respiratory irritant, may be formed during fires. 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.

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6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.

- wear protective clotning.
 Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.
 Environmental precautions: Dilute with plenty of 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 adequate ventilation.
- Absorb liquid components with liquid-binding material.

Dispose contaminated material as waste according to item 13.

7 Handling and storage

Handling:

- **Precautions for safe handling** 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.
- 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:
- At this time, the other constituents have no known exposure limits.
- 15625-89-5 1,1,1-trimethylolpropane triacrylate WEEL Long-term value: 1 mg/m³ Skin 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 1333-86-4 Carbon black PEL Long-term value: 3.5 mg/m³ Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C REL Long-term value: 3* mg/m³ *inhalable fraction TLV 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: Keep away from foodstuffs, beverages and feed. Be sure to clean skin thoroughly after work and before breaks.

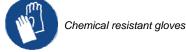
· Personal Protective Equipment (PPE)

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

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:

- 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.



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· 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 p	roperties
Information on basic physical General Information Appearance: Form: Color: Odor: Odor threshold:	and chemical properties Liquid Black Characteristic Not determined.
· pH-value:	Not determined.
Change in condition Melting point/Melting ra Boiling point/Boiling ra	ange: Undetermined. ange: Undetermined.
· Flash point:	>93 °C (>199 °F)
· Flammability (solid, gaseo	us): Not applicable.
 Ignition temperature: 	Not determined.
· Decomposition temper	ature: Not determined.
· Auto igniting:	Product is not selfigniting.
 Danger of explosion: 	Not determined.
Explosion limits: Lower: Upper:	Not determined. Not determined.
 Vapor pressure: Vapor Density: 	Not determined. not determined
Density at 20 °C (68 °F): Vapor density Evaporation rate	1.5 g/cm³ (12.518 lbs/gal) Not applicable. Not determined.
Solubility in / Miscibility wi Water:	ith Not miscible or difficult to mix.
Viscosity: Dynamic: Kinematic: VOC content:	Not available. Not available. 5.3 %

10 Stability and reactivity

· Reactivity No further relevant information available.

Hazardous Reactivity and Chemical Stability May polymerize during high 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 Bases (Alkalis) Strong reducing agents

Mercăptans

Acids

Hazardous decomposition products: Possible in traces.

11 Toxicological information

· Information on toxicological effects

Acute toxicity: LD/LC50 values that are relevant for classification:

Not a classified acute oral hazard.

21645-51-2 Aluminum hydroxide

(rat) (LD0(OECD TG 401)>5000mg/kg: no death occurred) Oral LD50

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	LD50	(Test species: n/a) (Toxicity not expected based on acute oral data)	
Inhalative	LC50/4 h	(Test species: n/a) (Toxicity not expected as a wetted form)	
		ol-A-(epichlorohydrin) epoxy resin	
Oral	LD50	11400 mg/kg (rat)	
Dermal	LD50	20000 mg/kg (rabbit) (Test guideline not available)	
		(Test species: n/a) (Toxicity not expected based on the acute oral data)	
		ium Polyphosphate	
Oral	LD50	5625 mg/kg (rat) LD0 (OECD TG 425) \geq 2000mg/kg; no death occurred. All animals survived, gained weight and appeared active and healthy throughout the study period. Reference: SIDS Dossier (2007).	
Dermal	LD50	(rat) (LD0 (OECD TG 402) \geq 5000mg/kg; no death occurred) All animals survived, gained weight and appeared active and healthy throughout the study period. Reference: SIDS Dossier (2007).	
		(Test species: n/a) (Toxicity not expected due to wetted form)	
		12, C14) glycidyl ether	
		26800 mg/kg (rat) (Male rats; By calculation from 30.1 ml/kg)	
Dermal	LD50	(Test species: n/a) (Toxicity not expected based on acute oral data)	
		(rat) (Non-toxic; LC50 exceeded the satured vapor value)	
15625-89- Oral		methylolpropane triacrylate	
	LD50	5700 mg/kg (rat) (Calculated from 5.19 mL/kg) Reference: ChemID Full Record (2011).	
Dermal	LD50	2500 mg/kg (mouse) Reference: HSNO CCID (2011).	
		(Test species: n/a) (None or low toxicity based on the acute oral data)	
· Pr cc No · Se · Additi The pi Irritant	imary irrit ough ot a classifi on the s on the e ensitizatio ional toxic roduct sho	nptoms in biological assay: Not a classified acute dermal hazard. ant effect: ied acute inhalative hazard. kin: Irritant to skin and mucous membranes. ye: Irritating effect. n: Sensitization possible through skin contact. ological information: ws the following dangers according to internally approved calculation methods for preparations:	
· Cá		ic categories	
1000.00.1		ternational Agency for Research on Cancer)	
1333-86-4	Carbon b		2
		tional Toxicology Program)	
None of th		nts is listed.	
		a (Occupational Safety & Health Administration)	
		nts is listed.	

12 Ecological information

· Toxicity	
· Aquatic toxicity:	
21645-51-2 Aluminum hydroxide	
EC50 not irritating mg/kg (rabbit) (OECD TG 404; semiocclusive; 4hr-contact; undiluted)	
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin	
EC50 irritating mg/kg (rabbit)	
68333-79-9 Ammonium Polyphosphate	
EC50 not irritation mg/kg (rabbit) (24hr-contact; Draize score: 0 (Max. 8)) The substance caused slight irritation in an FDA-Richtlinie test; another study using 90% concentrated s effects. Meanwhile, it was not irritating through an 24-hr exposure in rabbits. When considering the w substance was not determined to be irritating to rabbit skin. Reference: IUCLID Dataset (2000).	substance led no irritating veight of all evidence, the
68609-97-2 Alkyl (C12, C14) glycidyl ether	
EC50 moderately mg/kg (rabbit) (EPA OTS 798.4470)	
15625-89-5 1,1,1-trimethylolpropane triacrylate	
EC50 irritating mg/kg (rabbit) (Skin irritation: 5/8 (Max. 8)) Skin irritation: 5/8 (Max. 8; mean score of all treated animals). The substance was classified as irritating to rabbit skin (Category 2) based on the classification criteria. Reference: Cognis (M)SDS (2007) and IUCLID Dataset (2000).	
 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. 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. 	
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· Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods
 Recommendation: Must be specially treated adhering to official regulations.

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

4 Transport information	
· UN-Number · DOT · IMDG, IATA	not regulated UN3082
UN proper shipping name DOT IMDG, IATA	not regulated ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUIE N.O.S. (Bisphenol-A-(epichlorohydrin) epoxy resin Triarylphosphate isopropylated)
 Transport hazard class(es) DOT Class 	not regulated
· IMDG, IATA	9 Miscellaneous dangerous substances and articles
Label · Packing group · DOT · IMDG, IATA	not regulated
· Environmental hazards:	Product contains environmentally hazardous substances Triarylphosphate isopropylated, Bisphenol-A-(epichlorohydrin) epox resin
 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category 	Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F A
 Transport in bulk according to Annex II of MARPOL IBC Code 	L 73/78 and the Not applicable.
· Transport/Additional information:	
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	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 SUBSTANCES LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOX RESIN, TRIARYLPHOSPHATE ISOPROPYLATED), 9, III

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance of	r mixture
 SARA Section 355 (extremely hazardous substances): 	
None of the ingredients is listed.	
SARA Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
 SARA Section 311/312 (Hazardous Chemical Inventory Reporting) 	
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin	A, C 25-30%
15625-89-5 1,1,1-trimethylolpropane triacrylate	A, R 5-<10%
1333-86-4 Carbon black	A, C 0.1-1%
• 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	

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US

Safety Data Sheet acc. to OSHA HCS

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· TSCA (Toxic Substances Control Act):	· · · · ·
All ingredients are listed.	
· Proposition 65	
Chemicals known to cause cancer:	
1333-86-4 Carbon black	
106-89-8 1-chloro-2,3-epoxypropane	
 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) 	
1333-86-4 Carbon black	A
 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:	
21645-51-2 Aluminum hydroxide	
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin	
68333-79-9 Ammonium Polyphosphate	
68609-97-2 Alkyl (C12, C14) glycidyl ether	
15625-89-5 1,1,1-trimethylolpropane triacrylate	
67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica	
1333-86-4 Carbon black	
· 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 06/14/2017 / 1 * The terms of the tervision of tervision of