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Safety Data Sheet acc. to OSHA HCS

Printing date 03/09/2021

Reviewed on 03/09/2021

1 Identification · Product identifier · Trade name: EL319 - Epoxy Adhesive Laminating System - Resin · Article number: I319088 · Details of the supplier of the safety data sheet Sika Advanced Resins, US EHS Department · Manufacturer/Supplier: Manufacturer: Sika Advanced Resins 30800 Stephenson Hwy Madison Heights MI 48071 USA · Information department: Product safety department • Emergency telephone number: +1 (248) 588-2270 During normalopening times: CHEMTREC 24-hour Emergency: +1 (800) 424-9300 2 Hazard(s) identification · Classification of the substance or mixture GHS08 Health hazard Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. GHS07 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 GHS08

· Signal word Danger

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Trade name: EL319 - Epoxy Adhesive Laminating System - Resin

(Contd. of page 1) · Hazard-determining components of labeling: Reaction Product of Bisphenol A and Epichlorohydrin **Phosphate Ester** 1,4-bis[92,3-epoxypropoxy0methyl]cyclohexane *Bis*(1,2,2,6,6-*pentamethyl*-4-*piperidyl sebacate Methyl* (1,2,2,6,6-*pentamethyl*-4-*piperidyl*) *sebacate* · Hazard statements Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. · Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray 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. [In case of inadequate ventilation] wear respiratory protection. If on skin: Wash with plenty of water. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). If eye irritation persists: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor. Wash contaminated clothing before reuse. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 2Fire = 1Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH Health = *2FIRE Fire = 11 **REACTIVITY O** Reactivity = 0· Other hazards · Results of PBT and vPvB assessment · **PBT:** Not applicable. (Contd. on page 3)

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Trade name: EL319 - Epoxy Adhesive Laminating System - Resin

· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:				
CAS: 25068-38-6 NLP: 500-033-5	Reaction Product of Bisphenol A and Epichlorohydrin	50-100%		
	Phosphate Ester	20-50%		
	1,4-bis[92,3-epoxypropoxy0methyl]cyclohexane	1-5%		
	Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate > 5%]	1-5%		
CAS: 41556-26-7	Bis(1,2,2,6,6-pentamethyl-4-piperidyl sebacate	1-5%		
CAS: 82919-37-7	Methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	<i>≥</i> 0.1-<1%		

4 First-aid measures

· Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

• After inhalation:

Supply fresh air and to be sure 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.

· After eye contact:

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

- After swallowing: If symptoms persist consult doctor.
- · 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 No further relevant information available.*

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

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 $90 mg/m^3$

990 mg/m³

 $5,900 \text{ mg/m}^3$

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· Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- $\cdot \textit{Personal precautions, protective equipment and emergency procedures} \textit{ Not required.}$
- *Environmental precautions: Dilute with plenty of water.*
- Do not allow to enter sewers/ surface or ground water.
- *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.
- Ensure adequate ventilation.
- 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.
- · Protective Action Criteria for Chemicals
- · PAC-1:

25068-38-6 Reaction Product of Bisphenol A and Epichlorohydrin

· PAC-2:

25068-38-6 Reaction Product of Bisphenol A and Epichlorohydrin

· PAC-3:

25068-38-6 Reaction Product of Bisphenol A and Epichlorohydrin

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Handling:
Precautions for safe handling

7 Handling and storage

- *Ensure good ventilation/exhaustion at the workplace.*
- Prevent formation of aerosols.
- · 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: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- 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.

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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:



Tightly sealed goggles

9 Physical and chemical properties

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

Liquid

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Trade name: EL319 - Epoxy Adhesive Laminating System - Resin

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Color:	Amber colored	
· Odor:	Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
· Flash point:	251 °C (483.8 °F)	
· Flammability (solid, gaseous):	Not applicable.	
• Decomposition temperature:	Not determined.	
• Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not determined.	
· Density at 20 °C (68 °F):	1.19 g/cm ³ (9.93 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wat	er): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.4 %	
VOC content:	0.37 %	
	4.4 g/l / 0.04 lb/gal	
Solids content:	0.4 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

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• *Reactivity* No further relevant information available.

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Trade name: EL319 - Epoxy Adhesive Laminating System - Resin

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization:

 $Sensitization\ possible\ through\ inhalation.$

- Sensitization possible through skin contact.
- \cdot Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

Irritant

· 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: No further relevant information available.
- · 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.
- · Additional ecological information:
- · General notes:
- Water hazard class 2 (Self-assessment): hazardous for water
- 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.

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Trade name: EL319 - Epoxy Adhesive Laminating System - Resin

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation:

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Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	
DOT	not regulated
IMDG, IATA	UN3082
UN proper shipping name	
DOT	not regulated
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII
	N.O.S. (Epoxy Resin, Isopropylated Phenol Phosphate), MARIN
	POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII
	N.O.S. (Epoxy Resin, Isopropylated Phenol Phosphate)
Transport hazard class(es)	
DOT	
· Class	not regulated
- Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	
DOT	not regulated
IMDG, IATA	



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Trade name: EL319 - Epoxy Adhesive Laminating System - Resin

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Environmental hazards:	Product contains environmentally hazardous substances Isopropylated Phenol Phosphate, Epoxy Resin		
Marine pollutant:	Yes		
	Symbol (fish and tree)		
Special marking (IATA):	Symbol (fish and tree)		
Special precautions for user	Warning: Miscellaneous dangerous substances and articles		
Ĥazard identification number (Kemler code)	: 90		
EMS Number:	F-A,S-F		
Stowage Category	Α		
Transport in bulk according to Annex II of			
MARPOL73/78 and the IBC Code	Not applicable.		
Transport/Additional information:			
IMDG			
Limited quantities (LQ)	5L		
Excepted quantities $(\widetilde{E}Q)$	Code: El		
	Maximum net quantity per inner packaging: 30 ml		
	Maximum net quantity per outer packaging: 1000 ml		
UN "Model Regulation":	not regulated		

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

Section 355 (extreme	ly hazardo	ous substances):
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None of the ingredients is listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• **TSCA (Toxic Substances Control Act):** All components have the value ACTIVE.

· Chemicals regulated by TSCA Section 12(b)

None of the ingredients is listed.

· Chemical regulated by TSCA 5(a)(2) rule:

None of the ingredients is listed.

· Hazardous Air Pollutants

None of the ingredients is listed.

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Trade name: EL319 - Epoxy Adhesive Laminating System - Resin

· Proposition 65

· Chemicals known to cause cancer:

98-82-8 *cumene*

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

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

None of the ingredients is listed.

· Listed in CWC Regulations

None of the ingredients is listed.

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling: Reaction Product of Bisphenol A and Epichlorohydrin **Phosphate Ester** 1,4-bis[92,3-epoxypropoxy0methyl]cyclohexane *Bis*(1,2,2,6,6-*pentamethyl*-4-*piperidyl sebacate* Methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate · Hazard statements Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. 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. [In case of inadequate ventilation] wear respiratory protection. If on skin: Wash with plenty of water. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.



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Trade name: EL319 - Epoxy Adhesive Laminating System - Resin

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Specific treatment (see on this label).

If eye irritation persists: Get medical advice/attention.

If experiencing respiratory symptoms: Call a poison center/doctor.

Wash contaminated clothing before reuse.

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

· Contact:

[·] Date of preparation / last revision 03/09/2021 / 9 · Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association 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) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Resp. Sens. 1: Respiratory sensitisation - Category 1 Skin Sens. 1: Skin sensitisation – Category 1 \cdot * Data compared to the previous version altered.