

Page 1/10

Safety Data Sheet acc. to OSHA HCS

*

Identification		
Product identifier		
Trade name: <u><i>EC-1018</i></u>		
Product number: Delta Application of the subs	abond 154-NC s tance / the mixture Potting/Encapsulating Compound	
Details of the supplier Manufacturer/Supplier EPOXYSET INC. 718 Park East Drive Woonsocket, RI 02895, Phone: (401) 726-4500 www.epoxyset.com	r:	
Information departme Emergency telephone of Chemtel (US transportat International (call collect	tion) 1-800-255-3924	
Hazard(s) identific	ation	
Hazard(s) identific Classification of the su	bstance or mixture	
	bstance or mixture	
Classification of the su	bstance or mixture	
Classification of the su	bstance or mixture h hazard	
Classification of the su	bstance or mixture h hazard	
Classification of the su GHS08 Healt Germ Cell Mutagenicity GHS07	bstance or mixture h hazard 7.2 H341 Suspected of causing genetic defects.	
Classification of the su GHS08 Healt Germ Cell Mutagenicity GHS07 Skin Irritation 2	bstance or mixture h hazard 2 H341 Suspected of causing genetic defects. H315 Causes skin irritation.	
Classification of the su GHS08 Healt Germ Cell Mutagenicity GHS07	bstance or mixture h hazard 7.2 H341 Suspected of causing genetic defects.	

· Signal word Warning

GHS07 GHS08

· Hazard-determining components of labeling: reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) 2,3-epoxypropyl o-tolyl ether · Hazard statements H315 Causes skin irritation.

(Contd. on page 2)

US

(Contd. of page 1)

Safety Data Sheet acc. to OSHA HCS

Revision 2

Reviewed on 09/04/2024

Printing date 09/04/2024

Trade name: EC-1018

H319 Causes ser	ious eve irritation		
H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.			
1	H341 Suspected of causing genetic defects. • Precautionary statements		
·			
P201	Obtain special instructions before use.		
P202	Do not handle until all safety precautions have been read and understood.		
P261	Avoid breathing dust/fume/gas/mist/vapors/spray		
P264	Wash thoroughly after handling.		
P272	Contaminated work clothing must not be allowed out of the workplace.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		
P302+P352	If on skin: Wash with plenty of water.		
P305+P351+P33	8 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy		
	to do. Continue rinsing.		
P308+P313	IF exposed or concerned: Get medical advice/attention.		
P321	Specific treatment (see on this label).		
P362+P364	Take off contaminated clothing and wash it before reuse.		
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.		
P337+P313	If eye irritation persists: Get medical advice/attention.		
P363	Wash contaminated clothing before reuse.		
P405	Store locked up.		
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.		
· Classification system:			
· NFPA ratings (scale 0 - 4)			



· HMIS-ratings (scale 0 - 4)

HEALTH 2	Health $= 2$
FIRE 1	Fire = 1
REACTIVITY 0	Reactivity $= 0$

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

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:		
7429-90-5	aluminium powder (stabilised) in wetted form (non-particulate)	>60%
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	30-50%
2210-79-9	2,3-epoxypropyl o-tolyl ether	≤2.5%
	Substituted Silane - Proprietary	≤2.5%

(Contd. on page 3)

Revision 2

Printing date 09/04/2024

Reviewed on 09/04/2024

Trade name: EC-1018

(Contd. of page 2)

4 First-aid measures

· Description of first aid measures

• 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.
- \cdot 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: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- 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.

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 section 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: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	90 mg/m ³
	Substituted Silane - Proprietary	9.3 mg/m ³
· PAC-2:		
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	990 mg/m ³
	Substituted Silane - Proprietary	100 mg/m ³
· PAC-3:		
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular 5, weight ≤ 700)	,900 mg/m ³
	(Cc	ontd. on page 4)

Revision 2

Reviewed on 09/04/2024

Printing date 09/04/2024 **Trade name:** *EC-1018*

Substituted Silane - Proprietary

 $\frac{\text{(Contd. of page 3)}}{230 \text{ mg/m}^3}$

7 Handling and storage

- · Handling:
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · 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 at temperatures not exceeding 10°C. Keep cool.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- 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 section 7.
- · 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:

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



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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.

(Contd. of page 4)

Safety Data Sheet acc. to OSHA HCS

Reviewed on 09/04/2024

Printing date 09/04/2024

Revision 2

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

Information on basic physical and c	hemical properties
General Information	
Appearance:	T 1 1
Form:	Liquid
Color:	Grey
Odor:	Aromatic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	2,500 °C (36.500 °F)
Flash point:	200 °C (392 °F)
Flammability (solid, gaseous):	Not applicable.
Auto igniting:	400 °C (752 °F)
Decomposition temperature:	Not determined.
Ignition temperature:	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):	1.9 g/cm ³ (15.8555 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wate	r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	100.0 %

(Contd. of page 5)

Safety Data Sheet acc. to OSHA HCS

Revision 2

Reviewed on 09/04/2024

Printing date 09/04/2024 **Trade name:** *EC-1018*

• Other information

No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · 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: No dangerous decomposition products known.

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 skin contact.
- Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: 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.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · 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.

Also poisonous for fish and plankton in water bodies.

(Contd. on page 7)

(Contd. of page 6)

Safety Data Sheet acc. to OSHA HCS

Revision 2

Reviewed on 09/04/2024

Trade name: *EC-1018*

Printing date 09/04/2024

Toxic for aquatic organisms

· 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:

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.

UN-Number	
DOT	not regulated
IMDG, IATA	UN3082
UN proper shipping name	
DOT	not regulated
IMDG IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUI N.O.S. (reaction product: bisphenol-A-(epichlorhydrin); epoxy res (number average molecular weight ≤ 700), 2,3-epoxypropyl o-tol ether), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUI N.O.S. (reaction product: bisphenol-A-(epichlorhydrin); epoxy res (number average molecular weight ≤ 700), 2,3-epoxypropyl o-tol ether)
Transport hazard class(es)	
-	
DOT Class	not regulated
IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	
DOT	not regulated
IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)

US

Printing date 09/04/2024	Revision 2	Reviewed on 09/04/2024

Trade name: *EC-1018*

	(Contd. of page
· Special precautions for user	Warning: Miscellaneous dangerous substances and articles
• Hazard identification number (Kemler code): 90
EMS Number:	F-A,S-F
· Stowage Category	A
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 (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 SUBSTANC
5	LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-
	(EPICHLORHYDRIN); EPOXY RESIN (NUMBER AVERAC
	MOLECULAR WEIGHT ≤ 700), 2,3-EPOXYPROPYL O-TOLY
	ETHER), 9, III

15 Regulatory information

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

· Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	ACTIVE
2210-79-9	2,3-epoxypropyl o-tolyl ether	ACTIVE
	Substituted Silane - Proprietary	ACTIVE

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

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:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

(Contd. on page 9)

Revision 2

Reviewed on 09/04/2024

Printing date 09/04/2024

Trade name: EC-1018

(Contd. of page 8)

· Carcinogenic	categories
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· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value) None of the ingredients is listed.

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

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 Warning

· Hazard-determining components of labeling:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) 2,3-epoxypropyl o-tolyl ether

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

· Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash thoroughly after handling.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
	to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
	i na antana i sa sa sa

· 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.

· Department issuing SDS: Environment protection department.

· Contact: EHS Personnel

Revision 2

Printing date 09/04/2024

Reviewed on 09/04/2024

Trade name: EC-1018

	(Contd. of page 9)
Date of preparation / last revision 09/04/2024 / 1	
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 Irritation 2: Skin corrosion/irritation – Category 2	
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A	
Sensitization - Skin 1: Skin sensitisation – Category 1	
Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2	
* Data compared to the previous version altered.	