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Safety Data Sheet

acc. to OSHA HCS

Printing date 04/19/2018

Revision 4

Reviewed on 02/02/2018

1 Identification

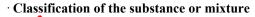
- · Product identifier
- · Trade name: <u>EO-97M (10cc syringe)</u>
- · Product number: EO-97M
- Details of the supplier of the safety data sheet • Manufacturer/Supplier:
- EPOXYSET INC. 718 Park East Drive Woonsocket, RI 02895, USA Phone: (401) 726-4500 www.epoxyset.com

Authorized Distributor



- · Information department: Product safety department: msds@epoxyset.com
- Emergency telephone number: Chemtel (US transportation) 1-800-255-3924 International (call collect) +01-813-248-0585

2 Hazard(s) identification



GHS07

Skin Irrit. 2 H315 Causes skin 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: Epoxy phenol novolac resin
- Fatty acids, C18-unstaurated, dimers, polymers with epicholohydrin
- · Hazard statements
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.

· Precautionary statements

- 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.
- P302+P352 If on skin: Wash with plenty of water.

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	(Contd. of page 1) Specific treatment (see on this label). If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
P363 P501 • Classificati	Wash contaminated clothing before reuse. Dispose of contents/container in accordance with local/regional/national/international regulations.
	ngs (scale 0 - 4)
	Health = 1 Fire = 1 Reactivity = 0
• HMIS-rati	ngs (scale 0 - 4)
HEALTH FIRE REACTIVITY	 Health = 1 Fire = 1 Reactivity = 0
• Other haza • Results of J • PBT: Not a • vPvB: Not	PBT and vPvB assessment applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

28064-14-4 Epoxy phenol novolac resin

68475-94-5 Fatty acids, C18-unstaurated, dimers, polymers with epicholohydrin

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.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- 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.

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<50%

<10%

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· Advice for firefighters

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· 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). 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:		
7440-22-4		0.3 mg/m ³
28064-14-4	Epoxy phenol novolac resin	30 mg/m ³
· PAC-2:		
7440-22-4	silver	170 mg/m ³
28064-14-4	Epoxy phenol novolac resin	330 mg/m ³
· PAC-3:		
7440-22-4	silver	990 mg/m ³
28064-14-4	Epoxy phenol novolac resin	2,000 mg/m ³

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Do not touch Frozen syringes with bare hand. Always use gloves.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:

Material must be stored at -40°F (-40 °C) or below to keep it in the frozen state.

· Requirements to be met by storerooms and receptacles:

Use only in well ventilated areas.

The material contains mixed resin and activator that must be kept frozen below -40° F (-40 °C) until it is ready to be used. The material is thawed at room temperature before it is used. Do not expose the material to high heat before it is used because reaction will occur.

· Information about storage in one common storage facility: Not required.

• Further information about storage conditions: None.

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· 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.

· 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 skin.

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.

• 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: Goggles recommended during refilling.

9 Physical and chemical properties

- \cdot Information on basic physical and chemical properties
- General Information

·	Appearance:	

Form:	Paste
Color:	Silver
· Odor:	Aromatic
· Odor threshold:	Not determined.
· pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 2,180 °C (35.6 °F)

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· Flash point:	201 °C (393.8 °F)	
[.] Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:		
Decomposition temperature:	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:	Not determined.	
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	7.86799 g/cm ³ (65.65838 lbs/gal) Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wa	ter): Not determined.	
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
· Solvent content: VOC content:	0.00 % 0.0 g/l / 0.00 lb/gl	
Solids content: • Other information	100.0 % 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:

· LD/LC50 values that are relevant for classification:

28064-14-4 Epoxy phenol novolac resin

Oral LD50 >2,000 mg/kg (rat)

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Dermal LD50 >2,000 mg/kg (rabbit)

- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: No 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: Harmful to 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.

- Harmful to 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.

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Transport information	
UN-Number	
DOT, IMDG, IATA	UN1845
UN proper shipping name	
DOT, IMDG, IATA	Carbon dioxide, solid
Transport hazard class(es)	
DOT, IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	
ΙΑΤΑ	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Danger code (Kemler):	-
EMS Number:	F-C,S-V
Stowage Category Stowage Code	E SW2 Clear of living quarters.
0	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	
ΙΑΤΑ	
IATA Remarks:	The shipping designation is for the solid carbon dioxide
I CHIMI BUS	("dry ice") used in the packaging to keep the material
	frozen. There is no hazardous shipping classification for
	the material itself.
UN "Model Regulation":	UN 1845 CARBON DIOXIDE, SOLID, 9, III

15 Regulatory information

*

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

7440-22-4 silver

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

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• 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.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

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:

Epoxy phenol novolac resin

Fatty acids, C18-unstaurated, dimers, polymers with epicholohydrin

- · Hazard statements
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- · Precautionary statements
- 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.
- P302+P352 If on skin: Wash with plenty of water.
- P321 Specific treatment (see on this label).
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P363 Wash contaminated clothing before reuse.
- P501 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.

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epartment issuing SDS: Environment protection department.	
Contact: Mr. Patel	
ate of preparation / last revision 04/19/2018 / 3	
bbreviations and acronyms:	
DR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carr	iage
angerous Goods by Road)	age
DG: International Maritime Code for Dangerous Goods	
OT: US Department of Transportation	
ATA: International Air Transport Association	
CGIH: American Conference of Governmental Industrial Hygienists	
INECS: European Inventory of Existing Commercial Chemical Substances	
LINCS: European List of Notified Chemical Substances	
AS: Chemical Abstracts Service (division of the American Chemical Society)	
FPA: National Fire Protection Association (USA)	
MIS: Hazardous Materials Identification System (USA)	
OC: Volatile Organic Compounds (USA, EU)	
C50: Lethal concentration, 50 percent	
D50: Lethal dose, 50 percent	
3T: Persistent, Bioaccumulative and Toxic	
2vB: very Persistent and very Bioaccumulative	
IOSH: National Institute for Occupational Safety	
SHA: Occupational Safety & Health	
LV: Threshold Limit Value	
EL: Permissible Exposure Limit	
EL: Recommended Exposure Limit	
xin Irrit. 2: Skin corrosion/irritation – Category 2	
xin Sens. 1: Skin sensitisation – Category 1	
Data compared to the previous version altered.	

Authorized Distributor

