

CLEAR Epoxy Resin PART A

Safety Data Sheet

Date of issue: 01/04/2023

SECTION 1: Identification

1.1. Identification

Trade name CLEAR Epoxy Resin PART A :
Product code METMOUNT-1 (M335R-___)

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Resin: component

1.3. Supplier

Metlab Corporation
4011 Hyde Park Blvd.
Niagara Falls, NY 14305
sales@metlabcorp.com
www.metlabcorp.com

1.4. Emergency telephone number

Emergency number : ChemTel +1 813-248-0585
ChemTel Acct #MIS7523877

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin corrosion/irritation Category 2	H315	Causes skin irritation
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Hazardous to the aquatic environment - Acute Hazard Category 3	H402	Harmful to aquatic life
Hazardous to the aquatic environment - Chronic Hazard Category 2	H411	Toxic to aquatic life with long lasting effects

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) : P261 - Avoid breathing mist/vapors/spray.
P264 - Wash all contact areas thoroughly after handling.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection.
P302+P352 - If on skin: Wash with plenty of mild soap and 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.
P321 - Specific treatment: See SDS Section 4.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

CLEAR Epoxy Resin PART A

Safety Data Sheet

P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P501 - Dispose of contents/container to special waste facility in accordance with regional/national regulations.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Bisphenol-A Epoxy Resin	(CAS-No.) 25068-38-6	>= 60	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 2, H411
Alkyl glycidyl ether blend	(CAS-No.) TRADE SECRET	10 - 30	Skin Irrit. 2, H315 Skin Sens. 1, H317

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.
First-aid measures after skin contact	: Dispose of contaminated leather articles. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Keep work clothing separate. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. Direct contact with the eyes is likely to be irritating.
First-aid measures after ingestion	: Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: Delayed adverse effects possible.
Symptoms/effects after inhalation	: Not expected to present a respiratory hazard under ambient conditions of normal industrial use due to low vapor pressure. Vapors from heated material may cause mild respiratory irritation with dryness and cough.
Symptoms/effects after skin contact	: Allergic skin rash. May cause moderate irritation. Swelling. Causes skin irritation. Redness, pain. Itching.
Symptoms/effects after eye contact	: Causes eye irritation. Swelling and conjunctivitis. Inflammation/damage of the eye tissue. redness, itching, tears.
Symptoms/effects after ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: Symptoms of chronic overexposure may not be readily apparent. . Cross-sensitization, or allergic response away from direct contact area may occur.

Alkyl glycidyl ether blend (TRADE SECRET)	
Chronic symptoms	Allergic response, tissue swelling, hives.

Bisphenol-A Epoxy Resin (25068-38-6)	
Chronic symptoms	Allergic response, tissue swelling, hives.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

CLEAR Epoxy Resin PART A

Safety Data Sheet

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Fire hazard : Irritating and/or toxic gases or fumes likely if involved in fire or exposed to extreme heat.
Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Dike water and extinguishing agents away from drains and waterways if possible.
Protection during firefighting : Complete protective clothing. Use self-contained breathing apparatus and chemically protective clothing.
Other information : Hazardous decomposition products. On heating/burning: release of harmful/irritant gases/vapors.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : protective gloves. Safety glasses, Gloves.
Emergency procedures : Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Boots, gloves, goggles. Synthetic apron.
Emergency procedures : Stop leak if safe to do so. Prevent product from entering drains.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Soak up small spill with inert solids. Contain or absorb spilled liquid with clay or other absorbent material. Dike and contain spill. Sweep or shovel spills into appropriate container for disposal.
Methods for cleaning up : On land, sweep or shovel into suitable containers. Clean/flush spill area with mild detergent solution.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : When heated, material emits irritating fumes.
Precautions for safe handling : Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures : Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a dry place.
Maximum storage period : 12 months
Storage temperature : 15 - 50 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Alkyl glycidyl ether blend (TRADE SECRET)

Not applicable

Bisphenol-A Epoxy Resin (25068-38-6)

Not applicable

CLEAR Epoxy Resin PART A

Safety Data Sheet

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Materials for protective clothing:

butyl rubber. Chloroprene rubber. Nitrile rubber

Hand protection:

protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Not expected to present a respiratory hazard under ambient conditions of normal industrial use due to low vapor pressure. Airborne concentrations greater than safe limits may be exceeded when material is sprayed, aerosolized, or heated. Use approved respiratory protection.

Thermal hazard protection:

Use insulated gloves when handling this material hot.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear to straw-colored liquid.
Color	: Colorless light yellow
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 100 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 0.1 mm Hg 25 °C
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.12 g/cm ³
Solubility	: insoluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 580.357 mm ² /s
Viscosity, dynamic	: 650 cP
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

Minimum ignition energy	: <
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CLEAR Epoxy Resin PART A

Safety Data Sheet

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Reaction with amines in large amounts or under uncontrolled conditions may produce extreme heat with noxious smoke and fumes.

10.4. Conditions to avoid

Overheating.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Irritating and/or toxic gases or fumes may be generated by thermal decomposition or combustion.
Residual monomer.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Alkyl glycidyl ether blend (TRADE SECRET)	
LD50 oral rat	> 2000 mg/kg
ATE US (oral)	7800 mg/kg body weight
LD50 dermal rabbit	> 2150 mg/kg

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: 580.357 mm ² /s
Symptoms/effects	: Delayed adverse effects possible.
Symptoms/effects after inhalation	: Not expected to present a respiratory hazard under ambient conditions of normal industrial use due to low vapor pressure. Vapors from heated material may cause mild respiratory irritation with dryness and cough.
Symptoms/effects after skin contact	: Allergic skin rash. May cause moderate irritation. Swelling. Causes skin irritation. Redness, pain. Itching.
Symptoms/effects after eye contact	: Causes eye irritation. Swelling and conjunctivitis. Inflammation/damage of the eye tissue. redness, itching, tears.
Symptoms/effects after ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic symptoms	: Symptoms of chronic overexposure may not be readily apparent. . Cross-sensitization, or allergic response away from direct contact area may occur.

Alkyl glycidyl ether blend (TRADE SECRET)	
Chronic symptoms	Allergic response, tissue swelling, hives.

CLEAR Epoxy Resin PART A

Safety Data Sheet

Bisphenol-A Epoxy Resin (25068-38-6)

Chronic symptoms	Allergic response, tissue swelling, hives.
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. Toxic to aquatic life with long lasting effects. Harmful to aquatic life.

Alkyl glycidyl ether blend (TRADE SECRET)

LC50 fish 1	> 5000 mg/l Rainbow Trout - 96 hr Static OECD 203
EC50 Daphnia 1	7.2 mg/l Daphnia Magna, 48 hr OECD 202

Bisphenol-A Epoxy Resin (25068-38-6)

LC50 fish 1	1.3 mg/l (96 h; Oncorhynchus mykiss; Lethal)
EC50 Daphnia 1	2.1 mg/l (48 h; Daphnia magna; Locomotor effect)
LC50 fish 2	2.3 mg/l (96 h; Oncorhynchus mykiss; Nominal concentration)
EC50 Daphnia 2	1.8 mg/l (48 h; Daphnia magna)
ErC50 (algae)	11 mg/l Scenedesmus Growth rate inhibition carpicorutrum (fresh water algae) 72h
NOEC (chronic)	0.3 mg/l Daphnia Magna, Fresh water 21 days (OECD 211 equivalent)
NOEC chronic fish	0.351 ng/l Pimephales promela, Fresh water, 32 days
NOEC chronic crustacea	0.32 ng/l Daphnia Magna, Fresh water semi-static, 21 days

12.2. Persistence and degradability

Alkyl glycidyl ether blend (TRADE SECRET)

Persistence and degradability	Not readily biodegradable in water.
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Bisphenol-A Epoxy Resin (25068-38-6)

Persistence and degradability	not readily degradable in water.
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Alkyl Glycidyl ether blend (TRADE SECRET)

Biochemical oxygen demand (BOD)	0.14 g O ₂ /g substance
Chemical oxygen demand (COD)	2.46 g O ₂ /g substance
ThOD	2.66 g O ₂ /g substance
BOD (% of ThOD)	0.0526

12.3. Bioaccumulative potential

CLEAR Epoxy Resin PART A (None - mix)

Bioaccumulative potential	Low bioaccumulation potential.
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Alkyl glycidyl ether blend (TRADE SECRET)

Log Pow	3.00 - 3.77 OECD 107, 20 °C
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Bisphenol-A Epoxy Resin (25068-38-6)

BCF fish 1	3 - 31 QSAR
Log Pow	3.242 estimated
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

Bisphenol-A Epoxy Resin (25068-38-6)

Surface tension	0.0587 - 0.0589 N/m 20 °C
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12.5. Other adverse effects

No additional information available

CLEAR Epoxy Resin PART A

Safety Data Sheet

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Landfilling of free liquid not recommended. Fuels burning or incineration preferred for material disposed of in "as sold" condition if regulations permit.
Sewage disposal recommendations	: Do not discharge into drains or the environment.
Product/Packaging disposal recommendations	: Dispose of contents or partial containers in accordance with local/regional regulations. Direct disposal of free liquid without treatment to landfill IS NOT recommended. . Collect all waste in suitable and labeled containers and dispose according to local legislation.
Additional information	: Landfilling of free liquid not recommended. Fuels burning or incineration preferred for material disposed of in "as sold" condition if regulations permit.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated for non-bulk shipment by road and rail within North America

Transport by sea

Transport document description (IMDG)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A Epoxy Resin), 9, III, MARINE POLLUTANT
UN-No. (IMDG)	: 3082
Class (IMDG)	: 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG)	: III - substances presenting low danger
Marine pollutant	: Yes



Air transport

Transport document description (IATA)	: UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epoxy Resin), 9, III
UN-No. (IATA)	: 3082
Proper Shipping Name (IATA)	: Environmentally hazardous substance, liquid, n.o.s.
Class (IATA)	: 9 - Miscellaneous Dangerous Goods
Packing group (IATA)	: III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

CLEAR Epoxy Resin PART A (None - mix)	
SARA Section 311/312 Hazard Classes	Health hazard - Respiratory or skin sensitization Health hazard - Skin corrosion or Irritation
Alkyl glycidyl ether blend (TRADE SECRET)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a final TSCA section 4 test rule.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
Bisphenol-A Epoxy Resin (25068-38-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

15.2. International regulations

CANADA

No additional information available

CLEAR Epoxy Resin PART A

Safety Data Sheet

EU-Regulations

CLEAR Epoxy Resin PART A (None - mix)

RoHS Substance	No
SVHC	No

Alkyl glycidyl ether blend (TRADE SECRET)

SVHC	No
RoHS Substance	No

Bisphenol-A Epoxy Resin (25068-38-6)

SVHC	No
RoHS Substance	No

National regulations

No additional information available

SECTION 16: Other information

Revision date : 04/23/2018

Other information : DISCLAIMER: To the best of our knowledge, the information contained in this SDS is accurate or is obtained from sources believed to be accurate. However, no liability, expressed or implied, is assumed for the accuracy or completeness of the information contained herein. Buyer assumes liability in its use of the material.

Full text of H-phrases:

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects

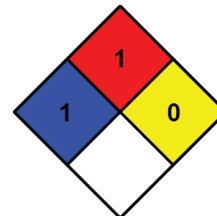
Abbreviations and acronyms:

	N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined ACGIH = American Conference of Governmental Industrial Hygienists OSHA = US Occupational Health and Safety Administration TLV-TWA = Threshold Limit Value-Time Weighted Average (8 hrs) STEL = Short-Term Exposure Limit (15 min) C = Ceiling Value PEL = Permissible Exposure Limit OEL = Occupational Exposure Limit IDLH = Immediately Dangerous to Life and Health ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor PNEC = Predicted No Effect Concentration LOAEL = Lowest Observed Adverse Effect Level NOAEL = No Observed Adverse Effect Level NOAEC = No Observed Adverse Effect Concentration
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NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



CLEAR Epoxy Resin PART A

Safety Data Sheet

Hazard Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: C C - Safety glasses, Gloves, Synthetic apron

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product