



1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Name: Epoxy MS-907 Plus
Two Part Adhesive
Part A

Product Use: Resin part of a two-part adhesive

MANUFACTURER/DISTRIBUTOR:

Miller-Stephenson Chemical
55 Backus Ave.
Danbury, Conn. 06810 USA
(203) 743-4447

Emergency Phone Number:
(800) 424-9300

2. HAZARDS IDENTIFICATION

Hazard classification

Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 2A
Skin Sensitization: Category 1
Carcinogenicity: Category 2
Hazardous to the aquatic environment, long-term hazard: Category 2

Label elements:

Signal word

Warning

Pictograms



Hazard Statements

Causes serious eye irritation.
Causes skin irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.
Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

Wear protective gloves. Wear eye or face protection. Wear protective clothing
Avoid release to the environment.
Avoid breathing dust.
Wash hands thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.

Response:

Collect spillage.

IF exposed or concerned: Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse.

If skin irritation or rash occurs: Get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists; Get medical attention.

Storage: Store locked up.

Disposal: Dispose of the contents and/or container according to local, regional, national and international regulations.

3. INGREDIENTS

<u>Material (s)</u>	<u>CAS No.</u>	<u>Approximate %</u>
Bisphenol A (Epichlorohydrin), Epoxy resin	25068-38-6	60 – 80
2,2-Ethylenedisoxidiethyl bis (2-ethylhexanoate)	94-28-0	4 – 20
1,3-Propanediol, 2-(hydroxymethyl)-2-methyl-, polymer with 2-(chloromethyl)oxirane	68460-21-9	4 – 20
Titanium dioxide	13463-67-7	1 – 5

4. FIRST AID MEASURES

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen and if not breathing, give artificial respiration, to be provided by trained personnel. Get medical attention immediately.

Eye: Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the eyelids. Check to remove contact lenses. Get medical attention.

Skin: Immediately wash skin with plenty of soap and water. Continue rinsing for at least 20 minutes. Remove contaminated clothing and shoes while wearing gloves. Wash clothing and shoes thoroughly before reuse. Get medical attention.

Oral: Rinse mouth out with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. DO NOT induce vomiting unless directed to do so by medical personnel. Give a small amount of water if swallowed. If vomiting occurs, the head should be kept low to prevent from entering the lungs. Never give anything to an unconscious person. Get medical attention immediately.

Most important symptoms/effects, acute and delayed:

Potential acute health effects:

Eye contact: Causes serious eye irritation.

Inhalation: No known significant effects or critical hazards.

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms:

Eye contact: Adverse symptoms may include the following: pain or irritation, watering, redness.

Inhalation: No known significant effects or critical hazards.

Skin contact: Adverse symptoms may include the following: irritation, redness.

Ingestion: No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary:

Notes to physician: Treat symptomatically, Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

5. FIRE FIGHTING MEASURES

Flash Point: Not Available

Autoignition Temperature: Not Available

Flammable Limits in Air, % by Vol.: Not Available

Suitable Extinguishing Media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None known.

Special hazards: This material is toxic to aquatic life with long lasting effects. Fire water contaminate with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products: Decomposition products may include the following materials: Carbon dioxide, Carbon monoxide, Halogenated compounds, Metal oxides.

Special Fire Fighting Instruction: Wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions & Protective equipment: Only emergency responders with specialize clothing is required to deal with the spillage. No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Environmental precautions: Prevent product from entering drains, sewers or open waters. Inform the authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Maybe harmful to the environment if released in large quantities. Collect spillage.

Clean-up methods: Ensure adequate ventilation. Wear appropriate personal protective equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed labeled waste container. Store container until ready for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Use the appropriate personal protective equipment. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only the adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers could be hazardous, because of residue. Do not reuse container. Do not eat, drink or smoke when using this material. Wash hands after handling.

Conditions for safe storage: Store in accordance with local regulations. Store in original container protected from sunlight in a dry, cool, well ventilated area away from incompatible materials (Section 10), food and drink. Keep container tightly closed until ready for use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Exposure Limits (TWA):</u>	<u>TLV (ACGIH)</u>	<u>PEL (OSHA)</u>
Bisphenol A (Epichlorohydrin), Epoxy resin	None	None
2,2-Ethylenedisoxidiethyl bis (2-ethylhexanoate)	None	None
1,3-Propanediol, 2-(hydroxymethyl)-2-methyl-, polymer with 2-(chloromethyl)oxirane	None	None
Titanium dioxide	10 mg/m ³ 8 hrs.	15 mg/m ³ 8 hrs. Form: Total dust

Engineering controls: Use local exhaust ventilation to maintain worker exposure below established exposure limits.

Hygiene measures: Wash hands, and face thoroughly after handling and before eating, smoking, and using the lavatory and at the end of work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure the eyewash stations and safety showers are close to the workstation location.

Respiratory protection: Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

Skin protection: Chemical resistant, impermeable gloves. The protective time of the gloves cannot be accurately estimated. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by specialist before handling this product.

Eye/face protection: Safety goggles or safety glasses with side shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N.A.

VOC: See section 9 of part B for VOC content

Relative Density: 1.1

Vapor Pressure (mmHg): N.A.

Vapor Density (Air=1): N.A.

Solubility in H₂O: Insoluble

pH Information: N.A.

Evaporation Rate (Ether=1): N.A.

Form: Paste

Appearance: Viscous white paste

Color: White

Odor: Slight sweet

10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Hazardous reactions: None under normal conditions of storage and use, hazardous reactions will not occur. Hazardous polymerization will not occur.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Incompatibility: Oxidizing materials.

Conditions to avoid: No specific data.

11. TOXICOLOGICAL INFORMATION

2,2-Ethylenedisoxydiethyl bis (2-ethylhexanoate)

Oral Acute Toxicity: LD50: 31 g/kg in Rat

Skin Corrosion/Irritation: Mild irritant in Rabbit, 500mg

Serious Eye Irritation/ Eye Irritation: No irritation, Rabbit

Skin sensitization: No data available

Respiratory Sensitization: No data available

Germ Cell Mutagenicity: No data available

Carcinogenicity: Not classified based on available information.

Reproductive Toxicity: No data available

STOT-single exposure: No data available

STOT-repeated exposure: No data available

Aspiration toxicity: No data available

Bisphenol A (Epichlorohydrin), Epoxy resin

Skin Corrosion/Irritation: Severe irritant in Rabbit, 24 hours 2 mg

Serious Eye Irritation/ Eye Irritation: Mild irritant in Rabbit, 100mg

Skin sensitization: No data available

Respiratory Sensitization: No data available

Germ Cell Mutagenicity: No data available

Carcinogenicity: Not classified based on available information.

Reproductive Toxicity: No data available

STOT-single exposure: No data available

STOT-repeated exposure: No data available

Aspiration toxicity: No data available

Titanium dioxide

Skin Corrosion/Irritation: No data available

Serious Eye Irritation/ Eye Irritation: No data available

Skin sensitization: No data available

Respiratory Sensitization: No data available

Germ Cell Mutagenicity: No data available

Carcinogenicity: 2B (IARC), A4 (ACGIH)

Reproductive Toxicity: No data available

STOT-single exposure: No data available

STOT-repeated exposure: No data available

Aspiration toxicity: No data available

12. ECOLOGICAL INFORMATION

Titanium dioxide

96 hour Acute LC50 in Fundulus heteroclitus (Fish): >1000000 µg/l Marine water
48 hour Acute LC50 in Daphnia pulex – Neonate (Daphnia): 6.5 mg/l Fresh water
48 hour Acute LC50 in Ceriodaphnia dubia – Neonate (Crustaceans): 3 mg/l Fresh water

Bisphenol A (Epichlorohydrin), Epoxy resin

Bioaccumulative potential: LogP_{ow}: 2.64 to 3.78; BCF: 31; Potential: low

2,2-Ethylenedisoxydiethyl bis (2-ethylhexanoate)

Bioaccumulative potential: LogP_{ow}: 6.1; Potential: high

Mobility in Soil: Not available.

Other adverse effects: No known significant effects critical hazards.

13. DISPOSAL CONSIDERATIONS

The generation of waste would be avoided or minimized whenever possible. Disposal of this product, solutions and any by-products should comply with the requirements of the environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contactor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not possible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues.

14. TRANSPORT INFORMATION

U.S. DOT

Not Regulated

IATA

Not Regulated

IMDG

Not Regulated

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

SARA Section 302/304: No products were found

SARA Section 311/312: Immediate Health, Delayed Health

SARA 313: No data available.

California Proposition 65: This product contains a chemical known to the State of California to cause cancer.
(Titanium dioxide)

Canada Regulatory Information

Canadian Inventory: All components are listed on or are exempt from listing on the Canadian Inventory.

16. OTHER INFORMATION

FOR INDUSTRIAL USE ONLY

REVISION DATE: JUNE 2018

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.