

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product Identifier

Product Name EpoThin 2 Epoxy Resin

(M)SDS Number 1514067_A

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory use

Uses advised against No information available

Details of the Supplier of the Safety Data Sheet

Manufacturer Buehler

Manufacturer Address 41 Waukegan Rd
Lake Bluff, IL 60044
www.buehler.com

Phone number +1 847 295 6500

E-mail address custserv@buehler.com

Emergency Telephone Number

Global Access Code: 334545

Americas: +1 760 476 3962

Middle East/Africa: +1 760 476 3959

Asia Pacific: +1 760 476 3960

Europe: +1 760 476 3961

2. Hazards Identification


Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|-----------------------------------|------------|
| Skin Corrosion/Irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2 |
| Skin Sensitization | Category 1 |

GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

| | | | |
|---|--|-----------------------|--------|
| Signal Word | WARNING | | |
| hazard statements | CAUSES SKIN IRRITATION Causes serious eye irritation May cause an allergic skin reaction | | |
|  | | | |
| Appearance | Clear to slightly hazy, yellow | Physical state | Liquid |
| | | Odor | Mild |

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

Specific treatment (see supplemental first aid instructions on this label)

EYES

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 advice/attention

skin

IF ON SKIN: Wash with plenty of soap and water
 Take off contaminated clothing and wash before reuse
 If skin irritation or rash occurs: Get medical advice/attention

Precautionary Statements - Storage

None

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

Not Applicable

OTHER INFORMATION

Toxic to aquatic life with long lasting effects

Interactions with other chemicals

No information available.

3. Composition/information on Ingredients

| Chemical name | CAS No. | Weight-% | Trade secret |
|---------------------------------------|-------------|----------|--------------|
| Bisphenol A - Epichlorohydrin polymer | 25068-38-6 | 50 - 80% | * |
| Trimethylolpropane triacrylate | 15625-89-5 | 1 - 15% | * |
| Glycidyl ether blend | Proprietary | 1 - 40% | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. First Aid Measures

FIRST AID MEASURES

| | |
|---|---|
| General advice | Show this safety data sheet to the doctor in attendance. |
| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area. |
| Skin Contact | Wash skin with soap and water. Wash with plenty of water. Take off contaminated clothing. Get medical attention if irritation develops and persists. |
| INHALATION | Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen. |
| INGESTION | Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician. |
| Self-Protection of the First Aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. |

Most Important Symptoms and Effects, Both Acute and Delayed

| | |
|--|--|
| Most important symptoms and effects | Burning sensation. Itching. Rashes. Hives. |
|--|--|

Indication of Any Immediate Medical Attention and Special Treatment Needed

| | |
|---------------------------|--|
| Notes to physician | May cause sensitization in susceptible persons. Treat symptomatically. |
|---------------------------|--|

5. Fire-fighting measures

Suitable extinguishing media

Dry chemical, CO₂, water spray or regular foam. Dike fire-control water for later disposal.

Unsuitable Extinguishing Media

Do not use halogenated extinguishing agents or foam. Do not scatter spilled material with high pressure water streams.

Specific Hazards Arising from the Chemical

Some may burn but none ignite readily. Some may be transported hot.

Uniform Fire Code

Sensitizer: Liquid

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to mechanical impact NO.

Sensitivity to static discharge NO.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

Do not touch or walk through spilled material. Stop leak if you can do it without risk.

OTHER INFORMATION

Refer to protective measures listed in Sections 7 and 8.

Environmental Precautions

Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Take up with sand, earth or other non-combustible absorbent material. With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. Handling and Storage

Precautions for Safe Handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

Incompatible products Strong acids. Strong oxidizing agents. Strong bases.

8. Exposure Controls/Personal Protection

Control Parameters

Exposure guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate Engineering Controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection If splashes are likely to occur: Wear safety glasses with side shields (or goggles). None required for consumer use.

Skin and Body Protection Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves. Butyl rubber. Nitrile rubber.

Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

9. Physical and Chemical Properties

Physical and chemical properties

| | | | |
|---------------------------------|--------------------------------|-----------------------|--------------------------|
| Physical state | Liquid | Odor | Mild |
| Appearance | Clear to slightly hazy, yellow | Odor Threshold | No information available |
| Color | Light yellow | | |
| Property | Values | Remarks | Method |
| pH | UNKNOWN | | |
| Melting / freezing point | < 0 °C | None known | |

| | | |
|---|---------------------------|------------|
| Boiling point / boiling range | > 200 °C | None known |
| Flash Point | > 100 °C | None known |
| Evaporation Rate | No data available | None known |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limit in Air | | |
| Upper flammability limit | No data available | |
| Lower flammability limit | No data available | |
| Vapor pressure | No data available | None known |
| Vapor density | No data available | None known |
| Specific gravity | 1.11 | |
| Water Solubility | No data available | |
| Solubility in Other Solvents | no data available | None known |
| Partition coefficient: n-octanol/water | No data available | |
| Autoignition temperature | >300 °C | None known |
| Decomposition temperature | No data available | None known |
| Kinematic viscosity | 450.45 mm ² /s | None known |
| Dynamic viscosity | 500 cP @ 25°C | |
| Explosive Properties | no data available | |
| Oxidizing Properties | no data available | |

OTHER INFORMATION

| | |
|-----------------------------------|-------------------|
| Softening Point | No data available |
| VOC Content (%) | No data available |
| Particle Size | No data available |
| Particle Size Distribution | |

10. Stability and Reactivity

Reactivity

No data available.

Chemical Stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

None known based on information supplied.

Incompatible Materials

Strong acids. Strong oxidizing agents. Strong bases.

Hazardous decomposition products

Carbon oxides. May emit toxic fumes under fire conditions.

11. Toxicological Information

Information on likely routes of exposure

Product information

| | |
|---------------------|---|
| INHALATION | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. |
| Eye Contact | Specific test data for the substance or mixture is not available. (based on components). May cause redness, itching, and pain. Causes serious eye irritation. |
| Skin Contact | Specific test data for the substance or mixture is not available. CAUSES SKIN IRRITATION. (based on components). Prolonged contact may cause redness and irritation. |
| INGESTION | Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|-------------------------|-----------------|
| Bisphenol A - Epichlorohydrin polymer 25068-38-6 | = 11400 mg/kg (Rat) | - | - |
| Trimethylolpropane triacrylate 15625-89-5 | = 5190 µL/kg (Rat) = 5190 mg/kg (Rat) | = 5000 mg/kg (Rabbit) | - |

Symptoms related to the physical, chemical and toxicological characteristics

| | |
|-----------------|---|
| Symptoms | Erythema (skin redness). May cause redness and tearing of the eyes. Itching. Rashes. Hives. |
|-----------------|---|

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|---------------------------------|--|
| sensitization | May cause sensitization in susceptible persons. May cause sensitization by skin contact. |
| Mutagenic effects | No information available. |
| carcinogenicity | Contains no ingredient listed as a carcinogen. |
| Reproductive Toxicity | No information available. |
| STOT - Single Exposure | No information available. |
| STOT - Repeated Exposure | No information available. |
| Chronic toxicity | No known effect based on information supplied. |
| Target organ effects | Respiratory System. EYES. skin. |
| Aspiration hazard | No information available. |

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)
15,200.00 mg/kg
ATEmix (dermal)
20,000.00 mg/kg (ATE)

12. Ecological Information

ecotoxicity

Toxic to aquatic life with long lasting effects.

Persistence and Degradability

No information available.

Bioaccumulation

No information available

Other adverse effects

No information available.

13. Disposal Considerations

Waste Treatment Methods

Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated packaging

Dispose of contents/containers in accordance with local regulations.

14. Transport information

| | |
|-----------------------------|--|
| <u>DOT</u> | Not regulated (If shipped in NON BULK packaging by ground transport) |
| <u>TDG</u> | |
| UN number | No information |
| <u>MEX</u> | |
| UN-No | No information |
| <u>ICAO</u> | |
| UN-No | No information |
| <u>IATA</u> | |
| UN-No. | UN3082 |
| Proper Shipping Name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| Hazard Class | 9 |
| Packing Group | III |
| Description | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BIPHENOL A - EPICHLOROHYDRIN POLYMER), 9, III |
| <u>IMDG/IMO</u> | |
| UN-No. | UN3082 |
| Proper Shipping Name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| Hazard Class | 9 |

Packing Group III
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A - EPICHLOROHYDRIN POLYMER), 9, III, MARINE POLLUTANT

RID

UN-No. No information
Proper Shipping Name No information
Hazard Class No information
Packing Group No information

ADR

UN-No. UN3082
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard Class 9
Packing Group III
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A - EPICHLOROHYDRIN POLYMER), 9, III

ADN

UN-No No information

15. Regulatory Information

International Inventories

TSCA Complies
DSL All components are listed either on the DSL or NDSL
IECSC

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

| | |
|--|----|
| Acute health hazard | NO |
| Chronic health hazard | NO |
| Fire hazard | NO |
| Sudden Release of Pressure Hazard | NO |
| Reactive hazard | NO |

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

International regulations

CANADA
WHMIS Hazard Class
 Not Determined

| 16. Other Information | | | | | | | |
|-----------------------|--|---|---------------------|---|------------------------|---|--|
| NFPA | Health hazards | 1 | flammability | 1 | Instability | 0 | Physical and chemical hazards - PERSONAL PROTECTION |
| HMIS | Health hazards | 2 | flammability | 1 | Physical hazard | 0 | |
| Prepared By | Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501 | | | | | | |
| Issuing Date | 09-Apr-2019 | | | | | | |
| Revision Date | 13-Oct-2020 | | | | | | |
| Revision note | No information available | | | | | | |

Disclaimer

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



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End of Safety Data Sheet