

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : EpoThin 2 Resin
Product code : 20-3440-032; 20-3440-128

1.2. Recommended use and restrictions on use

Recommended use : Laboratory chemicals
Restrictions on use : None known

1.3. Supplier

Buehler
41 Waukegan Rd
Lake Bluff, IL 60044
T 1-847-295-6500
custserv@buehler.com

1.4. Emergency telephone number

Emergency 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

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 2A	H319	Causes serious eye irritation.
Skin sensitisation, Category 1	H317	May cause an allergic skin reaction.
Full text of H-statements: see section 16		

2.2. GHS Label elements, including precautionary statements

GHS CA labelling

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Warning

Hazard statements (GHS CA) : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.

Precautionary statements (GHS CA) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P272 - Contaminated work clothing should 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.
P321 - Specific treatment (see supplemental first aid instruction on this label).

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P332+P313 - If skin irritation occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

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Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
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Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
Bisphenol A-epichlorohydrin polymer	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane / 4,4'-(1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane / Phenol, 4,4'-(1-methylethylidene) bis-, polymer with (chloromethyl)oxirane / Epichlorohydrin-4,4'-isopropylidenediphenol resin / Phenol, 4,4'-(1-methylethylidene) bis-, polymer with 2-(chloromethyl)oxirane / Epichlorohydrin-bisphenol A resin / 4,4'-Isopropylidenediphenol-epichlorohydrin polymer / Diphenylolpropane-epichlorohydrin resin / Polymer of 4,4'-isopropylidenediphenol and 1-chloro-2,3-epoxypropane / 2,2-Bis(4-hydroxyphenyl)propane-epichlorohydrin copolymer / UP 5-207 / Epoxy adhesive UP 5-207 / Poly(bisphenol A/epichlorohydrin) / Bisphenol A-epichlorohydrin,	CAS-No.: 25068-38-6	70 – 85	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317

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Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
	reaction product / 4,4'- ISOPROPYLIDE NEDIPHENOL/EP ICHLOROHYDRI N COPOLYMER / Reaction product: bisphenol A, epichlorohydrin epoxy resin / Bisphenol-A- (epichlorohydrin) epoxy resin (reaction product) / Poly[2- (chloromethyl)oxir ane-alt-4,4'- (propane-2,2- diyl)diphenol] / Reaction product: bisphenol-A- (epichlorohydrin) and epoxy resin / (Chloromethyl)oxi rane, 4,4'-(1- methylethylidene) bisphenol copolymer / Reaction product: bisphenol-A- (epichlorohydrin); epoxy resin (number average molecular weight ≤ 700) / Reaction product: bisphenol-A- (epichlorohydrin), epoxy resin			

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Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
Oxirane, [[[2-ethylhexyl)oxy)methyl]-	Ether, 2-ethylhexyl glycidyl / 2-Ethylhexyl glycidyl ether / Ethylhexyl glycidyl ether, 2- / [[[2-Ethylhexyl)oxy)methyl]oxirane / Propane, 1,2-epoxy-3-((2-ethylhexyl)oxy)- / Oxirane, 2-[[[(2-ethylhexyl)oxy)methyl]- / 2-ethylhexyl glycidyl ether / Ethyl-2-hexylglycidylether / 2-Ethylhexyl-2,3-epoxypropyl ether / Oxirane, 2-(((2-ethylhexyl)oxy)methyl)-	CAS-No.: 2461-15-6	10 – 20	Skin Irrit. 2, H315 Skin Sens. 1A, H317

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Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
Trimethylolpropane triacrylate	Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol / 2-Ethyl-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate / 2-Propenoic acid, 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester / Triacrylate, trimethylolpropane / 2-Propenoic acid, 1,1'-[2-ethyl-2-[[[(1-oxo-2-propen-1-yl)oxy]methyl]-1,3-propanediyl] ester / 2,2-Bis(acryloyloxymethyl)butyl acrylate / TRIMETHYLOLPROPANE TRIACRYLATE / 1,1,1-Trimethylolpropane triacrylate / 2,2-bis(Acryloyloxymethyl)butyl acrylate	CAS-No.: 15625-89-5	< 10	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317

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	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

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4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Not determined.

5.3. Specific hazards arising from the hazardous product

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Exercise caution when fighting any chemical fire.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

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

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear.
Colour	: light yellow
Odour	: Slight
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: < 0 °C
Boiling point	: > 200 °C
Flash point	: > 100 °C
Auto-ignition temperature	: > 300 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.11 g/cm ³
Solubility	: Insoluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: 450.45 mm ² /s
Viscosity, dynamic	: 500 cP

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Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.
Conditions to avoid : None under recommended storage and handling conditions (see section 7).
Incompatible materials : Strong oxidizing agents.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time: : No additional information available

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.

Bisphenol A-epichlorohydrin polymer (25068-38-6)

LD50 oral rat	11400 mg/kg
ATE CA (oral)	11400 mg/kg bodyweight

Oxirane, [[[2-ethylhexyl]oxy]methyl]- (2461-15-6)

LD50 oral rat	7800 mg/kg
ATE CA (oral)	7800 mg/kg bodyweight

Trimethylolpropane triacrylate (15625-89-5)

LD50 oral rat	5190 mg/kg
LD50 dermal rabbit	5000 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.
STOT-single exposure : Not classified.
STOT-repeated exposure : Not classified.
Aspiration hazard : Not classified.

EpoThin 2 Resin

Viscosity, kinematic	450.45 mm ² /s
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Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact : Eye irritation.

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according to the Hazardous Products Regulation (February 11, 2015)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone	: Not classified.
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SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
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SECTION 14: Transport information

In accordance with TDG / DOT / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (TDG)	: Not applicable
Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

14.3. Transport hazard class(es)

TDG

Transport hazard class(es) (TDG)	: Not applicable
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DOT

Transport hazard class(es) (DOT)	: Not applicable
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IMDG

Transport hazard class(es) (IMDG)	: Not applicable
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IATA

Transport hazard class(es) (IATA)	: Not applicable
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according to the Hazardous Products Regulation (February 11, 2015)

14.4. Packing group

Packing group (TDG)	: Not applicable
Packing group (DOT)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable

14.5. Environmental hazards

Other information	: No supplementary information available.
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14.6. Special precautions for user

TDG

No data available

DOT

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. National regulations

Bisphenol A-epichlorohydrin polymer (25068-38-6)

Listed on the Canadian DSL (Domestic Substances List)

Oxirane, [[[2-ethylhexyl)oxy]methyl]- (2461-15-6)

Listed on the Canadian DSL (Domestic Substances List)

Trimethylolpropane triacrylate (15625-89-5)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Bisphenol A-epichlorohydrin polymer (25068-38-6)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

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Oxirane, [[[2-ethylhexyl)oxy]methyl]- (2461-15-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on the Japanese ISHL (Industrial Safety and Health Law)

Trimethylolpropane triacrylate (15625-89-5)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory
Listed on the Japanese ISHL (Industrial Safety and Health Law)
Listed on KECL/KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16: Other information

Issue date : 08/16/2022
Revision date : 08/16/2022

Full text of H-statements:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Safety Data Sheet (SDS), Canada

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