

## SECTION 1: Identification

### 1.1. Product identifier

Product form : Mixture  
Product name : EpoHeat CLR Resin  
Product code : 20-3423-064

### 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](mailto: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 2	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.

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P321 - Specific treatment (see supplemental first aid instruction on this label).  
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

### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
Phenol, polymer with formaldehyde, glycidyl ether	phenolic polymer Phenol, polymer with formaldehyde, oxiranylmethyl ether / Polymer, phenol formaldehyde with glycidyl ether / Polymers of epichlorohydrin/phenol/formaldehyde novolacs / Etherification products of glycidyl group of (polymer of formaldehyde/phenol)	CAS-No.: 28064-14-4	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)
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	5 – 9	Skin Irrit. 2, H315 Skin Sens. 1A, H317
Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives	Alkyl (C12-14) glycidyl ether / Oxirane, mono[(C12-14)-alkyloxy)methyl] derivatives / Oxirane, 2-[(C12-14-alkyloxy)methyl] derivatives / Alkyl(C12-14) glycidyl ether / Oxirane, 2-((C12-14-alkyloxy)methyl) derivatives / C12-14-Alkyl glycidyl ether / Mono[(C12-14-alkyloxy)methyl]-oxirane derivatives	CAS-No.: 68609-97-2	5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317

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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	1 – 3	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/EPICHLOROHYDRIN COPOLYMER / Reaction product: bisphenol A, epichlorohydrin epoxy resin / Bisphenol-A-(epichlorohydrin) epoxy resin (reaction product) / Poly[2-(chloromethyl)oxirane-alt-4,4'-(propane-2,2-diyl)diphenol] / Reaction product: bisphenol-A-(epichlorohydrin) and epoxy resin / (Chloromethyl)oxirane, 4,4'-(1-methylethylidene) bisphenol copolymer / Reaction product: bisphenol-A-(epichlorohydrin); epoxy resin (number average molecular weight $\leq 700$ ) / Reaction product: bisphenol-A-(epichlorohydrin), epoxy resin			

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.
First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible).

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### 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.

### 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 : Eliminate all ignition sources if safe to do so. Evacuate area. 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

General measures : Do not handle until all safety precautions have been read and understood.

### 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

Technical measures : Store locked up.

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Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a closed container. Keep out of reach of children. Store in a well-ventilated place. Keep cool.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 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:

Chemical goggles or safety glasses. 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 : Liquid.  
Colour : Clear  
Odour : Sweet  
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 : No data available  
Boiling point : > 150 °C  
Flash point : > 93 °C  
Auto-ignition temperature : No data available

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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	: 1.13
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 400 – 900 cP
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	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Incompatible materials	: Strong acids. Strong bases. 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.

Oxirane, [[[2-ethylhexyl)oxy]methyl]- (2461-15-6)	
LD50 oral rat	7800 mg/kg
ATE CA (oral)	7800 mg/kg bodyweight

Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives (68609-97-2)	
LD50 oral rat	17100 mg/kg
LD50 dermal rabbit	> 3987 mg/kg
ATE CA (oral)	17100 mg/kg bodyweight

Bisphenol A-epichlorohydrin polymer (25068-38-6)	
LD50 oral rat	11400 mg/kg
ATE CA (oral)	11400 mg/kg bodyweight

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.



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STOT-repeated exposure	: Not classified.
Aspiration hazard	: Not classified.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.

## 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

### IATA

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

### 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.

### 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

Phenol, polymer with formaldehyde, glycidyl ether (28064-14-4)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives (68609-97-2)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

### 15.2. International regulations

#### Phenol, polymer with formaldehyde, glycidyl ether (28064-14-4)

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

#### 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)

#### Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives (68609-97-2)

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 KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)

### 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  
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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

## SECTION 16: Other information

Issue date : 05/19/2022  
Revision date : 05/19/2022

### Full text of H-statements:

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

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Safety Data Sheet (SDS), Canada

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