

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : EpoKwick FC Resin
Product code : 20-3453-128

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 1	H318	Causes serious eye damage.
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) : Danger

Hazard statements (GHS CA) : H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.

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.
P310 - Immediately call a POISON CENTER or doctor.

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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.
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	86	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, 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
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	3 – 5	Skin Irrit. 2, H315 Skin Sens. 1A, H317

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Name	Chemical name / Synonyms	Product identifier	wt%	Classification (GHS CA)
2-Propenoic acid, 1,4-butanediyl ester	1,4-Butanediol diacrylate / 1,4-Butanediyl diacrylate / Butylene diacrylate / 1,4-Butylene diacrylate / 1,4-Butylene glycol diacrylate / Diacrylate, 1,4-butadiyl / Tetramethylene diacrylate / Tetramethylene glycol diacrylate / 2-Propenoic acid, 1,1'-(1,4-butanediyl) ester / Acrylic acid, tetramethylene ester / Butandiol diacrylate / Butanediol diacrylate / 1,4-Butyleneglycol diacrylate / Diester of methacrylic acid with 1,4-butanediol / Butane-1,4-diyl diacrylate	CAS-No.: 1070-70-8	3	Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 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 ≤ 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. Call a physician immediately.
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 : Serious damage to eyes.

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 : Fight fire with normal precautions from a reasonable distance.
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.

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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

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	: Colourless
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	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available

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Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
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 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, 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

2-Propenoic acid, 1,4-butanediyl ester (1070-70-8)	
LD50 oral rat	587 mg/kg
LD50 dermal rat	400 – 800 mg/kg
LC50 Inhalation - Rat	> 0.06 mg/l (Exposure time: 8 h)
ATE CA (Dermal)	1100 mg/kg bodyweight

Oxirane, [[[2-ethylhexyl)oxy]methyl]- (2461-15-6)	
LD50 oral rat	7800 mg/kg
ATE CA (oral)	7800 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 damage.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.

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Reproductive toxicity	: Not classified.
STOT-single exposure	: Not classified.
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	: Serious damage to eyes.

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

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

Listed on the Canadian DSL (Domestic Substances List)

2-Propenoic acid, 1,4-butanediyl ester (1070-70-8)

Listed on the Canadian NDSL (Non-Domestic Substances List)

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

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, 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)

2-Propenoic acid, 1,4-butanediyl ester (1070-70-8)

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)

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)
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Listed on the Japanese ISHL (Industrial Safety and Health Law)

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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

SECTION 16: Other information

Issue date : 05/17/2022
Revision date : 05/17/2022

Full text of H-statements:

H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

Safety Data Sheet (SDS), Canada

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