

KELMAR® CWC Resin - Part A

SECTION 1. IDENTIFICATION

Product Identifier	KELMAR® CWC Resin - Part A
Other Means of Identification	N/A
Product Family	Epoxy Resins
Recommended Use	Industrial concrete coating.
Restrictions on Use	This product is designed as part of a system in 2 parts and must be mixed, according to manufacturer's instructions, with the appropriate partner product before use.
Manufacturer	R&D Technical Solutions Ltd., 7000 Davand Drive, Mississauga, ON, L5T 1J5, 905-795-9900, www.rdsolutions.ca
Emergency Phone No.	CANUTEC, 1-613-996-6666, 24 HR
Date of Preparation	October 08, 2020

SECTION 2. HAZARD IDENTIFICATION

Classification

Skin corrosion - Category 1; Serious eye damage - Category 1; Skin sensitization - Category 1; Germ cell mutagenicity - Category 2; Reproductive toxicity - Category 2; Specific target organ toxicity (repeated exposure) - Category 2; Aquatic hazard (Acute) - Category 1; Aquatic hazard (Chronic) - Category 1

Label Elements



Danger

Hazard Statement(s):

- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H341 Suspected of causing genetic defects.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash hands and skin thoroughly after handling.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P310 Immediately call a POISON CENTRE or doctor.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or

shower.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P314 Get medical advice or attention if you feel unwell.

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 CENTRE or doctor.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P402 + P404 Store in a dry place. Store in a closed container.

Disposal:

P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

Note:

Less than 0.5

% of the mixture consists of an ingredient or ingredients of unknown acute toxicity dermal.

Other Hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	45.0-70.0		
Calcium carbonate	1317-65-3	10.0-30.0		Limestone
4-Nonylphenol, branched (mixed isomers)	84852-15-3	5.0-10.0		
Propylene carbonate	108-32-7	3.0-7.0		
Urea, polymer with formaldehyde, butylated	68002-19-7	0.1-1.0		
1-Butanol	71-36-3	0.1-1.0		
Diglycidyl ether of bisphenol A-based epoxy resins, low molecular weight solids	25068-38-6	0.1-1.0		
Carbon black	1333-86-4	0.1-1.0		
Silica, quartz	14808-60-7	0.1-1.0		
Xylene (mixed isomers)	1330-20-7	<0.1		
Ethylbenzene	100-41-4	<0.1		
Alkyl Glycidly Ether	68609-97-2	<0.1		

Notes

Any concentration shown as a range is to protect confidentiality or due to batch variations.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor.

Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Take off immediately contaminated clothing,

Product Identifier: KELMAR® CWC Resin - Part A - Ver. 1

Date of Preparation: October 08, 2020

Date of Last Revision: February 04, 2022

Page 02 of 08

shoes and leather goods (e.g. watchbands, belts). Rinse with lukewarm, gently flowing water for 5 minutes. If skin irritation or a rash occurs, get medical advice or attention. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely. If skin irritation or a rash occurs, get medical advice or attention.

Eye Contact

Avoid direct contact. Wear protective eye-wear/goggles if necessary. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Centre or doctor.

Ingestion

Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Get medical advice or attention if you feel unwell or are concerned.

First-aid Comments

This compound contains a skin sensitizer. An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure.

Most Important Symptoms and Effects, Acute and Delayed

May cause serious eye damage. May irritate or burn the eyes. Permanent damage including blindness may result. Causes moderate to severe irritation. May burn the skin. Permanent scarring may result.

Immediate Medical Attention and Special Treatment

Target Organs

This product is unlikely to target specific organs. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Special Instructions

Not applicable.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media

Do not use direct water stream - may cause fire to spread.

Specific Hazards Arising from the Product

Closed containers may rupture violently when heated releasing contents. Contain fire water runoff if possible - may cause environmental damage.

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.

Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Remove or isolate incompatible materials as well as other hazardous materials.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Product Identifier: KELMAR® CWC Resin - Part A - Ver. 1

Date of Preparation: October 08, 2020

Date of Last Revision: February 04, 2022

Page 03 of 08

Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Suitable absorbents are: clay, dirt, sand, Milsorb®.

Other Information

Report spills to local health, safety and environmental authorities, as required.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not get in eyes, on skin or on clothing. Avoid generating vapours or mists. Avoid release to the environment. General hygiene considerations: do NOT eat, drink or store food in work areas.

Conditions for Safe Storage

Store in an area that is: well-ventilated. Store in the original, labelled, shipping container. Empty containers may contain hazardous residue. Store separately. Keep closed. Follow all precautions given on this safety data sheet.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Not available.

This product has not been tested.

Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles. Wear chemical safety goggles and face shield when contact is possible.

Skin Protection

Chemical-resistant, impervious gloves which comply with an approved standard should be worn at all times when handling. Wear chemical protective clothing e.g. gloves, aprons, boots.
Neoprene rubber, butyl rubber, nitrile rubber.

Respiratory Protection

Not normally required if product is used as directed. For non-routine or emergency situations: wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Yellowish liquid.
Odour	faint
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Flash Point	Not available
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.326

Product Identifier: KELMAR® CWC Resin - Part A - Ver. 1
Date of Preparation: October 08, 2020
Date of Last Revision: February 04, 2022

Solubility	Practically insoluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Physical State	Liquid
VOC	<5 g/l - water

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Polymerizes in the presence of aliphatic amines.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources. Prolonged exposure to high temperatures.

Incompatible Materials

Avoid unintended contact with amines. Avoid contact with: oxidizing agents (e.g. peroxides), strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide).

Hazardous Decomposition Products

Can include, but not limited to: very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

No data for the product itself. ATE values are calculated based on toxicity values of individual components of this product.

Likely Routes of Exposure

Skin contact; skin absorption; eye contact; ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	Not applicable	> 15,000 mg/kg (rat)	23,000 mg/kg (rabbit)
Propylene carbonate	Not applicable	33520 mg/kg (rat)	> 2000 mg/kg (rabbit)
Urea, polymer with formaldehyde, butylated	> 10 mg/L (rat) (4-hour exposure) (mist)	1420 mg/kg (rat)	> 7000 mg/kg (rabbit)
Diglycidyl ether of bisphenol A-based epoxy resins, low molecular weight solids		31027 mg/kg (rat)	
4-Nonylphenol, branched (mixed isomers)		1412 mg/kg (rat)	2140 mg/kg (rabbit)
Calcium carbonate		> 5000 mg/kg (rat)	> 2000 mg/kg

Based on available data, the classification criteria are not met. Exposure to vapour is minimal due to low volatility at room temperature.

Product Identifier: KELMAR® CWC Resin - Part A - Ver. 1
Date of Preparation: October 08, 2020
Date of Last Revision: February 04, 2022

Oral ATEmix = 6399.52 mg/kg

Dermal ATEmix = 4693.36 mg/kg

<0.5% of the mixture consists of an ingredient or ingredients of unknown acute toxicity (dermal)

Skin Corrosion/Irritation

There is limited evidence of skin corrosion. Contact can cause pain, redness, burns, and blistering. Permanent scarring can result.

Serious Eye Damage/Irritation

Causes serious eye irritation based on skin irritation information. Symptoms include sore, red eyes, and tearing. May irritate or burn the eyes. Permanent damage including blindness may result.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Exposure to vapour is minimal due to low volatility at room temperature.

Skin Absorption

May cause thermal burns. (4-Nonylphenol, branched (mixed isomers))

Ingestion

May cause severe irritation or burns to the mouth, throat and stomach.

Aspiration Hazard

May be drawn into the lungs (aspirated) if swallowed or vomited.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause dermatitis. Repeated ingestion or swallowing large amounts may injure internally. May cause damage to organs based on animal studies. May cause effects on the central nervous system. Symptoms may include restlessness, reduced ability to think, muscle tremors, memory loss and personality changes.

Respiratory and/or Skin Sensitization

May cause an allergic reaction (skin sensitization) based on information for closely related chemicals. In sensitized people, contact with a very small amount of product can cause an allergic reaction. Symptoms include redness, rash, itching and swelling. This reaction can spread from the hands or arms to the face and body. Repeated exposure will make the reaction worse.

(Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers) has caused allergic skin reactions in humans.

This product contains Calcium Carbonate which is a possible respiratory sensitizer (silica, quartz). However, the Calcium Carbonate is wetted with resin solutions and not available in respirable particles.

Carcinogenicity

Not known to cause cancer.

Silica (silica, quartz) is listed by IARC as a known carcinogen (Category 1) in respirable form. As used in this product the silica is wetted/bound and thus not available in respirable form. If used as intended, this product does not present as a carcinogen.

This product contains an ingredient rated by IARC as a possible carcinogen to humans - Carbon Black. However, this ingredient is wetted and bonded to the epoxy resin so is not available in respirable form and thus does not represent as a carcinogen.

Key to Abbreviations

IARC = International Agency for Research on Cancer. Group 1 = Carcinogenic to humans. Group 2B = Possibly carcinogenic to humans.

Reproductive Toxicity

Development of Offspring

May cause effects on the unborn child based on information for closely related chemicals.

(4-Nonylphenol, branched (mixed isomers)) animal studies show effects on the offspring. However, these effects are only seen with significant toxicity in the mothers.

Sexual Function and Fertility

May cause effects on sexual function and/or fertility.

Effects on or via Lactation

Not known to cause effects on or via lactation.

Product Identifier: KELMAR® CWC Resin - Part A - Ver. 1

Date of Preparation: October 08, 2020

Date of Last Revision: February 04, 2022

Page 06 of 08

Germ Cell Mutagenicity

May be mutagenic based on information for closely related chemicals. (Urea, polymer with formaldehyde, butylated). (4-Nonylphenol, branched (mixed isomers))

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

This product has not been tested.

Ecotoxicity

Toxic to aquatic life, based on acute toxicity tests. (Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers) May cause long lasting harmful effects to aquatic life.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations. This product and its container must be disposed of as hazardous waste. Do NOT dump into any sewers, on the ground or into any body of water. The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN3145	Alkylphenols, Liquid, N.O.S. (4-Nonylphenol, branched (mixed isomers))	8	II
US DOT	UN3145	Alkylphenols, Liquid, N.O.S. (4-Nonylphenol, branched (mixed isomers))	8	II

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

Product Identifier: KELMAR® CWC Resin - Part A - Ver. 1

Date of Preparation: October 08, 2020

Date of Last Revision: February 04, 2022

SECTION 16. OTHER INFORMATION

SDS Prepared By	Compliance & Documentation Coordinator
Phone No.	905-795-9900
Date of Preparation	October 08, 2020
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Revision Indicators	Not applicable. The following SDS content was changed on February 04, 2022: Section 1. Identification
Key to Abbreviations	IARC = International Agency for Research on Cancer NIOSH = National Institute for Occupational Safety and Health OSHA = US Occupational Safety and Health Administration
References	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Accelrys, Inc. Available from Canadian Centre for Occupational Health and Safety (CCOHS).
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Product Identifier: KELMAR® CWC Resin - Part A - Ver. 1
Date of Preparation: October 08, 2020
Date of Last Revision: February 04, 2022

Page 08 of 08