CORCHEM®

(M)SDS
SAFETY DATA SHEET

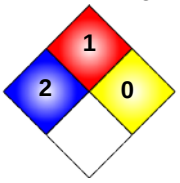
SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

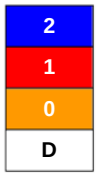
GHS Product Code:	C207-A-0T8
Product Name:	CORCHEM® 207 PHENOL NOVOLAC TANK LINING COMPONENT A, COLOR: BLUE
Recommended Use:	INDUSTRIAL PROTECTIVE COATING/LINING
Restrictions on Use:	INTENDED FOR PROFESSIONAL USE ONLY
Manufacturer:	CORCHEM MANUFACTURING, INC.
Address:	1227 SOUTH MURPHY STREET ODESSA TEXAS, USA 79766-8811 Phone: +1-432-332-7207 Fax: 1+432-332-7209
Emergency Phone:	INFOTRAC +1-352-323-3500 (U.S. Toll Free: 800-535-5053) Contract No.: 74435
Revision:	2-06242019

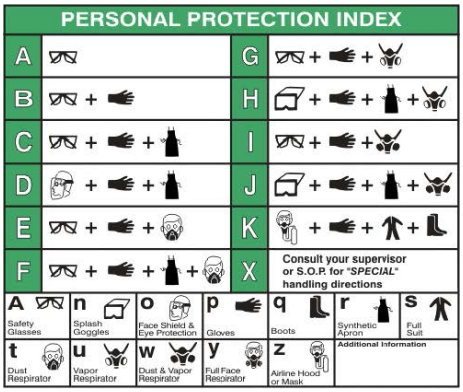
SECTION 2: HAZARDS IDENTIFICATION

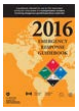
GHS Classification

Category 1	Skin sensitization
Category 2	Skin irritation Acute aquatic toxicity Chronic aquatic toxicity
Category 2B	Eye irritation









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GHS Label elements, including precautionary statements

Hazard Pictograms

Signal word: Warning

GHS Hazard statement(s)

H315:	Causes skin irritation.
H317:	May cause an allergic skin reaction.
H320:	Causes eye irritation.
H411:	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P102:	Keep out of reach of children.
P202:	Do not handle until all safety precautions have been read and understood.
P233:	Keep container tightly closed.
P234:	Keep only in original container.
P264:	Wash skin thoroughly after handling.
P270:	Do not eat, drink or smoke when using this product.
P273:	Avoid release to the environment.
P280:	Wear protective gloves/protective clothing/eye protection/face protection.

P281:	Use personal protective equipment as required.
P301 + P310:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353:	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362:	Take off contaminated clothing and wash before reuse.
P370 + P378:	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.
P391:	Collect spillage.
P401:	Store protected at temperatures between 40°F (4°C) and 100°F (38°C).
P403:	Store in a well ventilated place.
P410:	Protect from sunlight.
P501:	Dispose of contents/container to comply with the requirements of environmental protection and waste disposal legislation and any regional, local authority requirements.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Mixture

Ingredient(s)	CAS No.	% (by Weight)
Glycidoxypropyltrimethoxysilane	2530-83-8	<10
2-Propoxyethanol	2807-30-9	<5
Phenol/ formaldehyde/ epichlorohydrin copolymer	9003-36-5	>40
Confidential Business Information (CBI) [NOT REGULATED]	MIXTURE	>45

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

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

Ingestion

If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. **Seek immediate medical attention**, contact a poison control center or doctor/physician for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, initiate and maintain continuous irrigation until patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing, seek immediate medical attention. If skin is not damaged and symptoms persist, avoid further exposure, **seek immediate medical attention**. Launder clothing before reuse.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If not breathing, if breathing is irregular, or if respiratory arrest occurs, artificial respiration or oxygen should be administered by trained personnel only. It may be dangerous to provide mouth-to-mouth resuscitation. Keep person warm and quiet; **seek immediate medical attention**. If unconscious, place in recovery position and get medical attention immediately. Maintain open airway. Loosen tight clothing such as a collar, tie, belt, or waistband. Get medical attention if adverse health effects persist or are severe.

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids open; seek immediate medical attention.

Protection of first aid personnel

No action shall be taken involving any personal risk without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, wear gloves.

Notes to physicians or first aid providers

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, dry chemicals, dry sand, and Limestone powder.

Unsuitable extinguishing media

High volume water jet.

Specific hazards and by-products from combustion

Incomplete combustion may form carbon monoxide. Burning produces noxious and toxic fumes. **Downwind personnel must be evacuated**. Decomposition products may be toxic and include the following materials: carbon dioxide, carbon monoxide, and various hydrocarbons. Fumes and vapors from the thermal and chemical decompositions vary widely in combustion and toxicity. Do not allow runoff from firefighting to enter drains or waterways. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment and precautions for fire-fighters

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Avoid contact with skin. A face shield should be worn. Use personal protective equipment.

THIS MATERIAL IS TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS, CONTAMINATED FIRE EXTINGUISHING MEDIA MUST NOT BE DISCHARGED INTO WATERWAYS, SEWERS, DRAINS, OR THE ENVIRONMENT. FIRE RESIDUES AND CONTAMINATED FIRE EXTINGUISHING MEDIA MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.

Flash point

Estimated >392° F (>200° C)

Explosive limit

Not established

Autoignition temperature

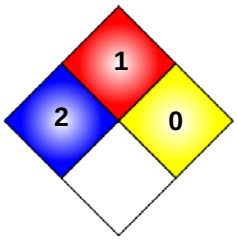
Not Established

Fire and explosion hazards

Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. In a fire or if heated, a pressure increase will occur and the container may burst. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes. Cool storage with water, if exposed to fire.

NFPA Rating

Health:	**2**
Flammability:	**1**
Reactivity:	**0**
Special:	



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions

No action shall be taken involving personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

THIS MATERIAL IS TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS, MATERIAL MUST NOT BE DISCHARGED INTO WATERWAYS, SEWERS, DRAINS, OR THE ENVIRONMENT. COLLECT EMPTY CONTAINERS AND CONTAMINATED MATERIAL SEPARATELY AND DISPOSE IN ACCORDANCE WITH LOCAL REGULATIONS.

Small spill

Stop leak if without risk. Dilute with water and mop up if water soluble or absorb liquid with a dry, inert, non-combustible, absorbent material such as: sand, diatomaceous earth, vermiculite, or other absorbent material. Persons not wearing proper personal protective equipment should be excluded from area of spill.

THIS MATERIAL IS TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS, MATERIAL MUST NOT BE DISCHARGED INTO WATERWAYS, SEWERS, DRAINS, OR THE ENVIRONMENT. COLLECT EMPTY CONTAINERS AND CONTAMINATED CLEAN-UP MATERIAL SEPARATELY AND DISPOSE IN ACCORDANCE WITH LOCAL REGULATIONS.

Large spill

Stop leak if without risk. Move containers from spill area. Prevent run-off to sewers, water courses basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with a dry, inert, non-combustible, absorbent material such as: sand, diatomaceous earth, vermiculite, or other absorbent material and place in container for disposal according to local regulations (see section 13). Dispose via a licensed waste disposal contractor. **Contaminated absorbent material may pose the same hazard as the spilled product.** If run-off occurs, notify proper authorities as required, that a spill has occurred. Note: see section 1 for emergency contact information and section 13 for waste disposal.

THIS MATERIAL IS TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS, MATERIAL MUST NOT BE DISCHARGED INTO WATERWAYS, SEWERS, DRAINS, OR THE ENVIRONMENT. COLLECT EMPTY CONTAINERS AND CONTAMINATED CLEAN-UP MATERIAL SEPARATELY AND DISPOSE IN ACCORDANCE WITH LOCAL REGULATIONS.

SECTION 7: HANDLING AND STORAGE

Handling

Wear appropriate personal protective equipment (see section 8). Eating, Drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face prior to eating, drinking, and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

OPENED, PARTIAL, AND EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THIS SAFETY DATA SHEET (SDS) MUST BE OBSERVED.

Storage

Store in accordance with local regulations. Store in a dry, cool, climate controlled area between 40°F (4°C) and 100°F (38°C), away from incompatible materials (see section 10), food and drink. Protect from extremes in temperature and direct sunlight. Keep container tightly closed and sealed until ready to use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

OPENED, PARTIAL, AND EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THIS SAFETY DATA SHEET (SDS) MUST BE OBSERVED.

Other precautions

Consult local, state, and federal hazardous waste regulators before disposing of waste materials.

Can cause skin irritation, eye irritation, and allergic skin reaction. Avoid contact with eyes, skin, and clothing. Wash thoroughly after using. **DO NOT TAKE INTERNALLY! HARMFUL IF SWALLOWED! FOR PROFESSIONAL USE ONLY.** Use protective skin cream such as FEND2 (MSA) where skin contact is likely. Prevent prolonged or repeated breathing of vapor, or spray mists. Liquid penetrated shoes and leather, may cause delayed irritation or skin reactions. **KEEP OUT OF REACH OF CHILDREN. DO NOT HANDLE UNTIL THE MANUFACTURER'S INSTRUCTIONS AND SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD!** Contact manufacturer if further information is required.

EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE SAFETY DATA SHEET (SDS) MUST BE OBSERVED.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit(s)

Contains no substances with occupational exposure limit values

Consult local authorities for acceptable exposure limits.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate when utilizing this material wear a NIOSH approved full-face cartridge respirator or gas mask suitable to keep airborne mists and vapor concentration below the time-weighted threshold limit values. **WHEN USING IN POORLY VENTILATED OR CONFINED SPACES, USE A FRESH-AIR SUPPLYING RESPIRATOR OR A SELF-CONTAINED BREATHING APPARATUS**.

Skin protection

Drench affected area with water for at least 15 minutes. Wash hands at the end of each work shift and before eating, drinking, using tobacco products, or restroom. To prevent repeated or prolonged skin contact, wear appropriate safety garments such as impervious gloves, head/neck covers, aprons, jackets, pants, coveralls, and boots. Replace defective PPE and/or spoiled garments/boots.

Eye protection

Chemical splash goggles and face shield in compliance with OSHA regulations are advised for eye protection. Provide readily accessible eye wash stations and safety showers.

Engineering controls

Use explosion-proof suction type exhaust fans and blowers with sufficient CFM capacity to keep solvent vapors below 20% of the explosive limit. Provide sufficient mechanical ventilation to maintain exposure below TLV(s).

Provide readily accessible eye wash stations and safety showers.

Exposure guidelines

Consult local authorities for acceptable exposure limits

Other protective clothing or equipment

Use protective barrier creams on exposed skin areas. Discard contaminated leather articles. Remove contaminated clothing; do not allow contaminated clothing out of the workplace.

Work hygienic practices

As with all products of this nature, good personal hygiene is essential. Hands and other exposed areas should be washed thoroughly with soap and water after contact, and before eating, drinking, using tobacco products, or restrooms. Regular laundering and/or replacement of contaminated clothing is essential to reduce indirect skin contact with this material.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):	Viscous blue liquid.
Odor:	Slight.
Odor Threshold:	Not available.
pH:	Not available.
Melting Point / Freezing Point:	Not available.
Initial Boiling Point and Range:	>392°F (>200°C)
Flash Point:	Estimated: >392° F (>200° C)
Evaporation Rate:	Not available.
Flammability (solid, gas):	Not applicable.
Upper/Lower flammability or explosive limits:	Not available.
Vapor Pressure:	< 0.001 mmHg at 68°F (20°C)
Vapor Density:	Not available.
Relative Density:	Not available.
Solubility:	Insoluble in water.
Partition coefficient: *n*- octanol/water:	Not available.
Auto-ignition temperature:	Not available.
Decomposition Temperature:	Not available.
Volatile Organic Compounds (VOC):	0.38 lb/gal (45.53 g/l)
Percent solids by weight:	97.43
Percent solids by volume:	96.03
Specific Gravity:	1.773 @ 68º F (20º C)
Weight per gallon:	14.8 @ 68º F (20º C)

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability:

Stable under normal conditions.

Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid, incompatibility (material to avoid):

Amines, Incompatible with bases, reducing agents, oxidizing agents, nitrous acid and other nitrosating agents, organic acids (i.e. acetic acid, citric acid etc.), mineral acids, sodium hypochlorite, reactive metals (e.g. sodium, calcium, zinc etc.), materials reactive with hydroxyl compounds.

Hazardous polymerization:

Under normal conditions of storage and use, hazardous polymerization will not occur.

Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Carbon monoxide, carbon dioxide, aldehydes.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological information

Likely routes of exposure and potential health effects

Inhalation: No known effects or critical hazards.

Ingestion: If ingested, irritating to mouth, throat, and stomach.

Skin: In contact with skin, causes skin irritation. May cause allergic skin reaction. Adverse symptoms may include irritation and/or redness. May cause sensitization by skin contact.

Eyes: In contact with eyes, causes eye irritation. Adverse symptoms may include pain, irritation, watering, and/or redness.

Acute Toxicity Data

Product/ingredient name	Method	Species	Dose	Exposure	Result
Glycidoxypropyltrimethoxysilane	OECD 401 Oral	Rat	>5,000 mg/kg	4 h	LD_{50}
Glycidoxypropyltrimethoxysilane	OECD 402 Dermal	Rabbit	6,800 mg/kg	4 h	LD_{50}
Glycidoxypropyltrimethoxysilane	OECD 403 Inhalation	Rat	>2,700 mg/m^3	4 h	LC_{50}
Glycidoxypropyltrimethoxysilane	OECD 404 Dermal Irr.	Rabbit	–	–	Mild irritant
Glycidoxypropyltrimethoxysilane	OECD 405 Eyes	Rabbit	–	–	Mild irritant
2-Propoxyethanol	OECD 401 Oral	Rat	3,089 mg/kg	4 h	LD_{50}
2-Propoxyethanol	OECD 402 Dermal	Rabbit	1,337 mg/kg	4 h	LD_{50}
2-Propoxyethanol	OECD 403 Inhalation	Rat	>2,132 mg/m^3	6 h	LC_{50}
2-Propoxyethanol	OECD 404 Dermal Irr.	Rabbit	–	–	Mild irritant
2-Propoxyethanol	OECD 405 Eyes	Rabbit	–	–	Moderate Irritant
Phenol/ formaldehyde/ epichlorohydrin copolymer	OECD 401 Oral	Rat	>5,000 mg/kg	4 h	LD_{50}
Phenol/ formaldehyde/ epichlorohydrin copolymer	OECD 402 Dermal	Rabbit	>2,000 mg/kg	4 h	LD_{50}
Phenol/ formaldehyde/ epichlorohydrin copolymer	OECD 403 Inhalation		No data		LD_{50}
Phenol/ formaldehyde/ epichlorohydrin copolymer	OECD 404 Dermal Irr.	Rabbit	–	–	Mild irritant
Phenol/ formaldehyde/ epichlorohydrin copolymer	OECD 405 Eyes	Rabbit	–	–	Non Irritant

OCED: Organization for Economic Cooperation and Development.
OECD Test Method 401: Acute Oral Toxicity. (Following the OECD Council decision, the test 401 'Acute Oral Toxicity' was deleted on 12/07/2002.)
OECD Test Method 420: Acute Oral toxicity – fixed dose procedure.

OECD Test Method 402: Acute Dermal Toxicity.
OECD Test Method 403: Acute Inhalation Toxicity.
OECD Test Method 404: Acute Dermal Irritation/Corrosion.
OECD Test Method 405: Acute Eye Irritation/Corrosion.

Skin corrosion / irritation

No additional data.

Serious eye damage / irritation

No additional data. May cause eye irritation.

Respiratory or skin sensitization

No additional data. Once sensitized, a severe allergic skin reaction may occur when subsequently exposed to very low levels.

Germ cell mutagenicity

No known significant effects or critical hazards on the product itself.

Component	Test	Result
Glycidoxypropyltrimethoxysilane	OECD 473 (*in vitro*)	Negative
Glycidoxypropyltrimethoxysilane	OECD 474 (*in vivo*)	Negative
2-Propoxyethanol	OECD 473 (*in vitro*)	No data
2-Propoxyethanol	OECD 474 (*in vivo*)	No data
Phenol/ formaldehyde/ epichlorohydrin copolymer	OECD 473 (*in vitro*)	Negative
Phenol/ formaldehyde/ epichlorohydrin copolymer	OECD 474 (*in vivo*)	Negative

OECD: Organization for Economic Cooperation and Development.
LOEL: "Lowest-observed-effect-level".
NOAEL: "No-observed-adverse-effect level".

Carcinogenicity

Component	Classification	Listing Body
Glycidoxypropyltrimethoxysilane	Not Listed	**IARC**
Glycidoxypropyltrimethoxysilane	Not Listed	**NTP**
2-Propoxyethanol	Not Listed	**IARC**
2-Propoxyethanol	Not Listed	**NTP**
Phenol/ formaldehyde/ epichlorohydrin copolymer	Not Listed	**IARC**
Phenol/ formaldehyde/ epichlorohydrin copolymer	Not Listed	**NTP**

IARC: World Health Organization's (WHO) International Agency for Research on Cancer.
NTP: U.S. Department of Health and Human Services' (DHHS) National Toxicology Program.

Reproductive toxicity

No known significant effects or critical hazards on the product itself.

Component	Test	Result
Glycidoxypropyltrimethoxysilane	OECD 414	Negative
Glycidoxypropyltrimethoxysilane	OECD 416	Negative
2-Propoxyethanol	OECD 414	Negative
2-Propoxyethanol	OECD 416	Negative
Phenol/ formaldehyde/ epichlorohydrin copolymer	OECD 414	Negative
Phenol/ formaldehyde/ epichlorohydrin copolymer	OECD 416	Negative

OECD: Organization for Economic Cooperation and Development.
LOEL: "Lowest-observed-effect-level".
NOAEL: "No-observed-adverse-effect level".

Specific Target Organ Toxicity, Single Exposure (STOT-SE)

Material not classified as STOT-SE hazard.

Specific Target Organ Toxicity, Repeated Exposure (STOT-RE)

Material not classified as STOT-RE hazard.

Aspiration hazard

Material not classified as Aspiration hazard.

Potential chronic health effects

No known significant effects or critical hazards on the product itself.

Component	Test	Endpoint	Species	Result
Glycidoxypropyltrimethoxysilane	OECD 403 (inhalation)	NOAEL	Rat	1,000 mg/kg
Glycidoxypropyltrimethoxysilane	OECD 404 (dermal)	NOAEL	Rat	> 1 ml/kg
Glycidoxypropyltrimethoxysilane	OECD 405 (ocular)			No data.
Glycidoxypropyltrimethoxysilane	OECD 408 (oral)	NOAEL	Rat	>1,000 mg/kg
2-Propoxyethanol	OECD 403 (inhalation)	NOAEL	Rat	41 mg/kg
2-Propoxyethanol	OECD 404 (dermal)	NOAEL	Rat	222 mg/kg
2-Propoxyethanol	OECD 405 (ocular)			No data.
2-Propoxyethanol	OECD 408 (oral)			No data.
Phenol/ formaldehyde/ epichlorohydrin copolymer	OECD 403 (inhalation)			No data.
Phenol/ formaldehyde/ epichlorohydrin copolymer	OECD 404 (dermal)	LOEL	Rabbit	0.5 mg/kg
Phenol/ formaldehyde/ epichlorohydrin copolymer	OECD 405 (ocular)	LOEL	Rabbit	100 mg/kg
Phenol/ formaldehyde/ epichlorohydrin copolymer	OECD 408 (oral)			No data

OECD: Organization for Economic Cooperation and Development.
LOEL: "Lowest-observed-effect-level".
NOAEL: "No-observed-adverse-effect level".

SECTION 12: ECOLOGICAL INFORMATION

Environmental effects

Highly toxic to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Ecotoxicity

Aquatic Toxicity

Toxicity to Fish

Product/ingredient name	Test	Species	Dose	Exposure
Glycidoxypropyltrimethoxysilane	LC_{50}	Lepomis macrochirus (bluegill)	276 mg/l	96 h
2-Propoxyethanol	LC_{50}	Brachydanio rerio (zebra fish)	4,926 mg/l	96 h
Phenol/ formaldehyde/ epichlorohydrin copolymer	LC_{50}	Leuciscus idus (golden orfe)	0.55 mg/l	96 h

Toxicity to aquatic invertebrates

Product/ingredient name	Test	Species	Dose	Exposure
Glycidoxypropyltrimethoxysilane	EC_{50}	Daphnia magna (water flea)	710 mg/l	48 h
2-Propoxyethanol	EC_{50}	Daphnia magna (water flea)	4,622 mg/l	48 h
Phenol/ formaldehyde/ epichlorohydrin copolymer	EC_{50}	Daphnia magna (water flea)	1.6 mg/l	48 h

Toxicity to aquatic algae and cyanobacteria

Product/ingredient name	Test	Species	Dose	Exposure
Glycidoxypropyltrimethoxysilane	EC_{50}	Scenedesmus (green algae)	53 mg/l	72 h
2-Propoxyethanol	EC_{50}	Scenedesmus (green algae)	> 500 mg/l	72 h
Phenol/ formaldehyde/ epichlorohydrin copolymer	EC_{50}	Scenedesmus (green algae)	1.8 mg/l	72 h

Persistence and degradability

Product/ingredient name	Test	Concentration	Result
Glycidoxypropyltrimethoxysilane	Hydrolysis 30 – days	65%	Not readily biodegradable
2-Propoxyethanol	Aerobic 20 – days	100%	Readily biodegradable
Phenol/ formaldehyde/ epichlorohydrin copolymer	Anaerobic 28 – days	0%	Not readily biodegradable

Bioaccumulative potential

Product/ingredient name	Log K_{ow}	BCF	Potential
Glycidoxypropyltrimethoxysilane	-0.9	–	Low
2-Propoxyethanol	1.51	3.16	Low
Phenol/ formaldehyde/ epichlorohydrin copolymer	3.6	–	Low

Mobility in soil

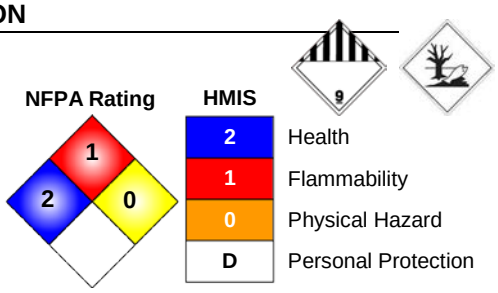
Product/ingredient name	
Glycidoxypropyltrimethoxysilane	No data
2-Propoxyethanol	No data
Phenol/ formaldehyde/ epichlorohydrin copolymer	Slight mobility

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method

EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE SAFETY DATA SHEET (SDS) MUST BE OBSERVED. Consult local, state, and federal hazardous waste regulators before disposing of waste materials. The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions, and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. **DISPOSE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS ONLY.**

SECTION 14: TRANSPORT INFORMATION



U.S. DEPARTMENT OF TRANSPORTATION

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol F epoxy resin solution)	
Hazard Class	9	
ID Number	UN3082	
Packing Group	III	
Emergency Contact	INFOTRAC	+1-352-323-3500 (U.S. Toll Free: 800-535-5053)

TRANSPORT CANADA

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol F epoxy resin solution)	
Hazard Class	9	
ID Number	UN3082	
Packing Group	III	
Emergency Contact	INFOTRAC	+1-352-323-3500 (U.S. Toll Free: 800-535-5053)

IMO/IMDG

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol F epoxy resin solution)	
Hazard Class	9	
ID Number	UN3082	
Packing Group	III	
Marine Pollutant	Yes	
Emergency Contact	INFOTRAC	+1-352-323-3500 (U.S. Toll Free: 800-535-5053)
Stowage Location	Category A.	
EmS Fire / EmS Spill	F-A / S-F	

IATA/DGR

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol F epoxy resin solution)	
Hazard Class	9	
ID Number	UN3082	
Packing Group	III	
Emergency Contact	INFOTRAC	+1-352-323-3500 (U.S. Toll Free: 800-535-5053)
Passenger and Cargo Aircraft	Quantity limitation: Packaging instruction: Special Provision: ERG Code:	118.9 US-Gal (450 L) 964 A97, A158, A197 9L
Cargo Aircraft Only	Quantity limitation: Packaging instruction: Special Provision: ERG Code:	118.9 US-Gal (450 L) 964 A97, A158, A197 9L

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Nombre propio del transporte	Ambientalmente sustancia peligrosa, liquid, nos (Bisfenol F solución de resina epoxi)	
Clase de peligro	9	
Número de identificación del	UN3082	
Grupo de embalaje	III	
Contacto de Emergencia	INFOTRAC	+1-352-323-3500 (U.S. Toll Free: 800-535-5053)

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use, or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

U.S. Department of Labor, Occupational Safety & Health Administration (OSHA)

Hazard Communication Standard **(HCS) Classification:** See Section 2 above

Effective 26 March 2012, OSHA modified its Hazard Communication Standard (HCS), **29 CFR Parts 1910, 1915, and 1926,** to conform to the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Emergency Planning and Community Right-to-Know Act (EPCRA)

42 U.S. Code, Chapter 116

Sections: 302/304 Extremely Hazardous Substances (EHS):

Extremely Hazardous Substances (EHSs), (40 CFR Part 302, Table 302.4)

Ingredient(s)	CAS No.
–	–

311/312 Hazard Categories

Extremely Hazardous Substances (EHSs), (40 CFR Part 355, Appendix A and Appendix B)

Category A:	Immediate (Acute) Health Hazard:	Yes
Category D:	Delayed (Chronic) Health Hazard:	No
Category F:	Fire Hazard:	No
Category R:	Reactive Hazard:	No
Category S:	Sudden Release of Pressure Hazard:	No

Ingredient(s)	CAS No.	Category
Phenol, polymer with formaldehyde, glycidylether	28064-14-4	A

Section: 313 Toxics Release Inventory (TRI) Reportable Ingredients:

Extremely Hazardous Substances (EHSs), (40 CFR Part 372, Subpart D)

Ingredient(s)	CAS No.
–	–

Clean Air Act
42 U.S. Code, Chapter 85

Section 111 Volatile Organic Compound (VOC) Content Limits:
40 CFR Part 59, Subpart D, Table 1

Volatile Organic Compounds (VOC): 45.53 g/l, (0.38 lb/gal)

Section 112(b) Hazardous Air Pollutants (HAPs):
42 U.S. Code § 7412 - Hazardous air pollutants

Ingredient(s)	CAS No.
–	–

Ozone Depleting Substances (ODS):
42 U.S. Code § 7671a - Listing of class I and class II substances

Ingredient(s)	CAS No.
–	–

State Regulations

USA, California State Safe Drinking & Toxic Enforcement Act (Proposition 65): This product contains the following chemical(s) known to the State of California to cause cancer, birth defects, or any other harm.

Ingredient(s)	CAS No.
–	–

USA, Louisiana Right-to-Know Hazardous Substance List (RTKHSL) Components:

Ingredient(s)	CAS No.
–	–

USA, Massachusetts Environmental Policy Act (MEPA), 301 CMR 41.00 components:

Ingredient(s)	CAS No.
–	–

USA, Michigan Critical Materials Register (CMR) Components:

Ingredient(s)	CAS No.
–	–

USA, New Jersey Right to Know Hazardous Substance List (RTKHSL) Components:

Ingredient(s)	CAS No.
–	–

USA, Pennsylvania Right-to-Know Hazardous Substance List (RTKHSL) Components:

Ingredient(s)	CAS No.
–	–

PRODUCT SPECIFIC HEALTH AND SAFETY DATA IN OTHER SECTIONS OF THIS SAFETY DATA SHEET (SDS) MAY ALSO BE APPLICABLE FOR STATE REQUIREMENTS. FOR DETAILS ON YOUR REGULATORY REQUIREMENTS YOU SHOULD CONTACT THE APPROPRIATE AGENCY IN YOUR STATE.

SECTION 16: OTHER INFORMATION

Preparation Information

This Safety Data Sheet (SDS) has been prepared by CORCHEM®.

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DISCLAIMER: All information contained herein is based upon data obtained from CORCHEM's suppliers and/or recognized technical sources.

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