

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

GHS Product Code: C247-B-0B1
 Product Name: CORCHEM® 247 COAL TAR EPOXY COMPONENT B, COLOR: BLACK
 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
 Emergency Contact: INFOTRAC: +1-352-323-3500 (TOLL-FREE IN THE US: 800-535-5053)
 Revision: 5-07292015

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

- Category 1 Aspiration Hazard
Skin sensitization
- Category 1A Carcinogenicity
- Category 1B Reproductive toxicant
Germ cell mutagenicity
- Category 2 Skin corrosion/irritation
Acute aquatic toxicity
- Category 2A Serious eye damage/irritation
- Category 4 Chronic aquatic toxicity

GHS Label elements, including precautionary statements

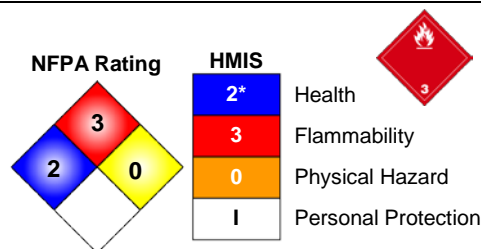
Hazard Pictograms



Signal word: **Danger**

GHS Hazard statement(s)

- H226: Flammable liquid and vapor.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H340: May cause genetic defects.
- H350: May cause cancer.
- H360: May damage fertility or the unborn child.
- H411: Toxic to aquatic life with long lasting effects.



PERSONAL PROTECTION INDEX			
A	Goggles	G	Goggles + Gloves + Respirator
B	Goggles + Gloves	H	Goggles + Gloves + Apron + Respirator
C	Goggles + Gloves + Apron	I	Goggles + Gloves + Respirator
D	Goggles + Gloves + Apron	J	Goggles + Gloves + Apron + Respirator
E	Goggles + Gloves + Respirator	K	Goggles + Gloves + Apron + Boots
F	Goggles + Gloves + Apron + Respirator	X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions
A	Safety Glasses	n	Splash Goggles
o	Face Shield & Eye Protection	p	Gloves
q	Boots	r	Synthetic Apron
s	Full Suit	Additional Information	
t	Dust Respirator	u	Vapor Respirator
w	Dust & Vapor Respirator	y	Full Face Respirator
z	Airline Hood or Mask		



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Precautionary statement(s)

P102:	Keep out of reach of children.
P202:	Do not handle until all safety precautions have been read and understood.
P210:	Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P234:	Keep only in original container.
P260:	Do not breathe dust / fumes / gas / mist / vapors / spray.
P264:	Wash skin thoroughly after handling.
P270:	Do not eat, drink or smoke when using this product.
P272:	Contaminated work clothing should not be allowed out of the workplace.
P273:	Avoid release to the environment.
P280:	Wear protective gloves/protective clothing/eye protection/face protection.
P281:	Use personal protective equipment as required.
P284:	Wear respiratory protection.
P301 + P310:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301+330+331:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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.
P337+313:	If eye irritation persists get medical advice/attention.
P361:	Remove/Take off immediately all contaminated clothing.
P363:	Wash contaminated clothing before reuse.
P391:	Collect spillage.
P401:	Store protected at temperatures between 40°F (4°C) and 100°F (38°C).
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

	<u>Ingredient(s)</u>	<u>CAS No.</u>	<u>% (by Weight)</u>
Xylenes		1330-20-7	<5
Bisphenol A - epoxy resins, number average MW >700 - <1100		25068-38-6	>20
C9 – C10 Aromatic hydrocarbons		64742-95-6	>10
Coal Tar Pitch		65996-93-2	>25
CBI Additives [NOT REGULATED BY GHS, DOT, IMDG, OR IATA]		MIXTURE	<40

SECTION 4: FIRST AID MEASURES

Ingestion

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

Skin

Immediately 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 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, irrigate for at least 30 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, water-fog, carbon dioxide, dry chemicals, dry sand, Limestone powder.

Specific hazards and by-products from combustion

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.

Special protective equipment and precautions for fire-fighters

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

COLLECT CONTAMINATED FIRE EXTINGUISHING MEDIA SEPARATELY. THIS MUST NOT BE DISCHARGED INTO DRAINS. FIRE RESIDUES AND CONTAMINATED FIRE EXTINGUISHING MEDIA MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.

Flash Point

Estimated: <140°F (60°C)

Explosive Limit

Not established.

Autoignition Temperature

Not Established.

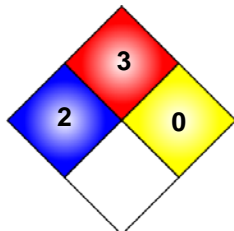
Fire and Explosion Hazards

Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near container, (even empty), because product (even just residue) can ignite explosively.

Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. Use water spray to cool fire exposed containers and structures until fire is out if it can be 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:	3
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

DO NOT ALLOW RELEASE INTO THE ENVIRONMENT. 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).

COLLECT CONTAMINATED MATERIAL SEPARATELY. RESIDUES AND CONTAMINATED MATERIAL MUST BE DISPOSED OF 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.

COLLECT CONTAMINATED CLEAN-UP MATERIALS SEPARATELY. RESIDUES AND CONTAMINATED CLEAN-UP MATERIALS MUST BE DISPOSED OF 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.

COLLECT CONTAMINATED CLEAN-UP MATERIALS SEPARATELY. RESIDUES AND CONTAMINATED CLEAN-UP MATERIALS MUST BE DISPOSED OF 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)

<u>Components</u>	<u>Basis</u>	<u>Authority</u>	<u>Control Parameters</u>	
Xylenes	Time Weighted Average (TWA):	OSHA	100 ppm	435 mg/m ³
Xylenes	Recommended exposure limit (REL):	NIOSH	100 ppm	435 mg/m ³
Xylenes	Threshold Limit Value (TLV):	ACGIH	100 ppm	435 mg/m ³
Xylenes	Immediately Dangerous to Life and Health (IDLH):	NIOSH	1,000 ppm	4,342 mg/m ³
Bisphenol A - epoxy resins, number average MW >700 - <1100	Immediately Dangerous to Life and Health (IDLH):	NIOSH	NOT LISTED	
Bisphenol A - epoxy resins, number average MW >700 - <1100	Time Weighted Average (TWA):	OSHA	NOT LISTED	
Bisphenol A - epoxy resins, number average MW >700 - <1100	Recommended exposure limit (REL):	NIOSH	NOT LISTED	
Bisphenol A - epoxy resins, number average MW >700 - <1100	Threshold Limit Value (TLV):	ACGIH	NOT LISTED	
C9 – C10 Aromatic hydrocarbons	Immediately Dangerous to Life and Health (IDLH):	NIOSH	500 ppm	[10% LEL]
C9 – C10 Aromatic hydrocarbons	Recommended Exposure Limit (REL):	NIOSH	50 ppm	205 mg/m ³
C9 – C10 Aromatic hydrocarbons	Time Weighted Average (TWA):	OSHA	100 ppm	410 mg/m ³
C9 – C10 Aromatic hydrocarbons	Short Term Exposure Limit (STEL):	OSHA	75 ppm	300 mg/m ³
Coal Tar Pitch	Immediately Dangerous to Life and Health (IDLH):	NIOSH	MIXTURE	80 mg/m ³
Coal Tar Pitch	Recommended Exposure Limit (REL):	NIOSH	MIXTURE	0.1 mg/m ³
Coal Tar Pitch	Time Weighted Average (TWA):	OSHA	MIXTURE	0.2 mg/m ³
Coal Tar Pitch	Threshold Limit Value (TLV):	ACGIH	MIXTURE	0.2 mg/m ³

Exposure Guidelines

Consult local authorities for acceptable exposure limits.

Personal Protective Equipment (PPE)

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

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.

Other Protective Clothing or Equipment

Use protective barrier creams on exposed skin areas.

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 black liquid
Odor:	Pungent, aromatic odor
Odor Threshold:	Not available.
pH:	7 - 8
Melting Point / Freezing Point:	Not available.
Initial Boiling Point and Range:	Estimated >250° F (>121° C)
Flash Point:	Estimated: <140°F (60°C)
Evaporation Rate:	Not available.
Flammability (solid, gas):	Not applicable.
Upper/Lower flammability or explosive limits:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Relative Density:	Not available.
Solubility in water:	Insoluble
Partition coefficient: <i>n</i>- octanol/water:	Not available.
Auto-ignition temperature:	Not available
Decomposition Temperature:	Not available.
Volatile Organic Compounds (VOC):	1.99 Lbs. per gallon less water
Percent solids by weight:	83.36
Percent solids by volume:	72.60
Specific Gravity:	1.431 @ 68.0° F (20.00° C)
Weight per gallon:	11.95 Lbs.

SECTION 10: STABILITY AND REACTIVITY

Reactivity

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

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:

Avoid heat, material readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Incompatible materials:

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 or By-Products:

Carbon monoxide, carbon dioxide, aldehydes.

SECTION 11: TOXICOLOGICAL INFORMATION**Toxicological Information****Likely routes of exposure and potential health effects**

- Inhalation:** Harmful if inhaled. If inhaled, may cause respiratory irritation, lung cancer, bladder cancer. Adverse symptoms may include respiratory tract irritation and/or coughing.
- Ingestion:** May be fatal if inhaled or enters airways. If ingested, irritating to mouth, throat, and stomach, may cause reproductive effects.
- 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 serious eye irritation. Adverse symptoms may include pain, irritation, watering, and/or redness.

Acute Toxicity Data

Product/ingredient name	Method	Species	Dose	Exposure	Result
Xylenes	LD ₅₀ Oral	Rat	3,523 mg/kg	4 h	–
Xylenes	LD ₅₀ Dermal	Rabbit	1,100 mg/kg	4 h	Irritation
Xylenes	LC ₅₀ Inhalation	Rat	5,000 mg/kg	4 h	–
Bisphenol A - epoxy resins, number average MW >700 - <1100	OECD 420 Oral	Rat	>2,000 mg/kg	4 h	–
Bisphenol A - epoxy resins, number average MW >700 - <1100	LD ₅₀ Dermal	Rabbit	16,000 mg/kg	4 h	–
Bisphenol A - epoxy resins, number average MW >700 - <1100	LC ₅₀ Inhalation	Rat	8.2 – 16.4 mg/l	4 h	–
C9 – C10 Aromatic hydrocarbons	OECD 401 Oral	Rat	5,000 mg/kg	4 h	–
C9 – C10 Aromatic hydrocarbons	LD ₅₀ Dermal	Rabbit	>2,000 mg/kg	4 h	–
C9 – C10 Aromatic hydrocarbons	LC ₅₀ Inhalation	Rat	29 mg/l	4 h	–
Coal Tar Pitch	LD ₅₀ Oral	Rat	>15,000 mg/kg		–
Coal Tar Pitch	LD ₅₀ Dermal	Rabbit	>2,000 mg/kg		–
Coal Tar Pitch	LC ₅₀ Inhalation	Rat			–

Skin corrosion / irritation

Harmful in contact with skin.

Serious eye damage / irritation

May cause irreversible eye damage.

Respiratory or skin sensitization

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.

Carcinogenicity

Component	Classification	Listing Body
Xylenes	Group 3 – Not classifiable as to its carcinogenicity to humans.	IARC
Xylenes	Some evidence of carcinogenic activity.	NTP
Bisphenol A - epoxy resins, number average MW >700 - <1100	Not Listed	IARC
Bisphenol A - epoxy resins, number average MW >700 - <1100	Not Listed	NTP
C9 – C10 Aromatic hydrocarbons	Group 2B – possibly carcinogenic to humans.	IARC
C9 – C10 Aromatic hydrocarbons	Some evidence of carcinogenic activity.	NTP
Coal Tar Pitch	Group 1 – Carcinogenic to humans.	IARC
Coal Tar Pitch	Clear evidence of carcinogenic activity.	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
Xylenes	OECD 414	Negative
Bisphenol A - epoxy resins, number average MW >700 - <1100	OECD 414	Negative
C9 – C10 Aromatic hydrocarbons	No data.	
Coal Tar Pitch	No data.	

OECD: Organization for Economic Cooperation and Development.

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

No data available.

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

No data available.

Aspiration hazard

Aspiration hazard category 1. May be fatal if swallowed and enters airways.

Potential chronic health effects

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

Component	Test	Endpoint	Species	Result
Xylenes	OECD 403 (inhalation)	NOAEL	Rat	1,500 mg/m ³
Xylenes	OECD 404 (dermal)	No data available.		
Xylenes	OECD 408 (oral)	NOAEL.		2,000 mg/kg
Bisphenol A - epoxy resins, number average MW >700 - <1100	OECD 403 (inhalation)	No data available.		
Bisphenol A - epoxy resins, number average MW >700 - <1100	OECD 404 (dermal)	NOAEL	Rat	92 mg/kg
Bisphenol A - epoxy resins, number average MW >700 - <1100	OECD 408 (oral)	No data available.		
C9 – C10 Aromatic hydrocarbons	OECD 403 (inhalation)	No data available.		No data
C9 – C10 Aromatic hydrocarbons	OECD 404 (dermal)	NOAEL	Rat	250 mg/kg
C9 – C10 Aromatic hydrocarbons	OECD 408 (oral)	NOAEL	Rat	239 mg/kg
Coal Tar Pitch	OECD 403 (inhalation)	No data available.		
Coal Tar Pitch	OECD 404 (dermal)	No data available.		
Coal Tar Pitch	OECD 408 (oral)	NOAEL	Rat	100 mg/kg

OECD: Organization for Economic Cooperation and Development.

NOAEL: "No-observed-adverse-effect level".

SECTION 12: ECOLOGICAL INFORMATION

Ecological Information

Environmental effects

No data on the product itself. May be harmful to the environment if released in large quantities.

Ecotoxicity

Aquatic Toxicity

Toxicity to Fish

Product/ingredient name	Test	Species	Dose	Exposure
Xylenes	LC ₅₀	Oncorhynchus mykiss (rainbow trout)	2.6 mg/l	96 h
Bisphenol A - epoxy resins, number average MW >700 - <1100	LC ₅₀	Leuciscus idus (golden orfe)	2.6 mg/l	96 h
C9 – C10 Aromatic hydrocarbons	LC ₅₀	Oncorhynchus mykiss (rainbow trout)	10 mg/l	96 h
Coal Tar Pitch	LC ₅₀	No data available.		

Toxicity to aquatic invertebrates

Product/ingredient name	Test	Species	Dose	Exposure
Xylenes	EC ₅₀	Daphnia magna (water flea)	1.0 mg/l	24 h
Bisphenol A - epoxy resins, number average MW >700 - <1100	EC ₅₀	Daphnia magna (water flea)	1.7 mg/l	48 h
C9 – C10 Aromatic hydrocarbons	EC ₅₀	Daphnia magna (water flea)	4.5 mg/l	24 h
Coal Tar Pitch	EC ₅₀	Daphnia magna (water flea)	100 mg/l	24 h

Persistence and degradability

Product/ingredient name	Test	Concentration	Result
Xylenes	Anaerobic 20 – days	72%	Readily biodegradable
Bisphenol A - epoxy resins, number average MW >700 - <1100	Aerobic 28 – days	5%	Not readily biodegradable
C9 – C10 Aromatic hydrocarbons	Aerobic 28 – days	78%	Readily biodegradable
Coal Tar Pitch			Not biodegradable

Bioaccumulative potential

Product/ingredient name	Log K _{ow}	BCF	Potential
Xylenes	3.12	2.14	Low
Bisphenol A - epoxy resins, number average MW >700 - <1100	3.8	31	Low
C9 – C10 Aromatic hydrocarbons	3.42	23	Low
Coal Tar Pitch	–	–	Low

Mobility in soil

Product/ingredient name	
Xylenes	Moderate mobility
Bisphenol A - epoxy resins, number average MW >700 - <1100	No data available
C9 – C10 Aromatic hydrocarbons	No data available.
Coal Tar Pitch	Immobile

SECTION 13: DISPOSAL CONSIDERATIONS

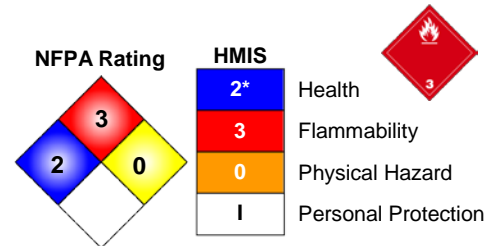
Waste Disposal Method

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.**

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

Proper Shipping Name Coating solution
 Hazard Class 3
 ID Number UN1139
 Packing Group III
 Emergency Contact INFOTRAC +1-352-323-3500 (U.S. Toll Free: 800-535-5053)



TRANSPORT CANADA

Proper Shipping Name Coating solution
 Hazard Class 3
 ID Number UN1139
 Packing Group III
 Emergency Contact INFOTRAC +1-352-323-3500 (US Toll Free: 800-535-5053)

IMO/IMDG

Proper Shipping Name Coating solution
 Hazard Class 3
 ID Number UN1139
 Packing Group III
 Emergency Contact INFOTRAC +1-352-323-3500 (US Toll Free: 800-535-5053)
 Stowage Category B
 EmS Fire / EmS Spill F-E / S-E

IATA/DGR

Proper Shipping Name Coating solution
 Hazard Class 3
 ID Number UN1139
 Packing Group III
 Emergency Contact INFOTRAC +1-352-323-3500 (US Toll Free: 800-535-5053)

Passenger and Cargo Aircraft	Quantity limitation:	2.6 US-Gal (5 L)
	Packaging instruction:	353
	Special Provisions:	None
Cargo Aircraft Only	Quantity limitation:	None
	Packaging instruction:	None
	Special Provisions:	None

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Nombre propio del transporte La solución de recubrimiento
 Clase de peligro 3
 Número de identificación del UN1139
 Grupo de embalaje III
 Contacto de Emergencia INFOTRAC +1-352-323-3500 (US 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)

<u>Ingredient(s)</u>	<u>CAS No.</u>
Xylenes	1330-20-7

Sections 311/312 Community Right-To-Know 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:	Yes
Category F:	Fire Hazard:	Yes
Category R:	Reactive Hazard:	No
Category S:	Sudden Release of Pressure Hazard:	No

<u>Ingredient(s)</u>	<u>CAS No.</u>	<u>Category</u>
Xylenes	1330-20-7	A, D, F
Bisphenol A - epoxy resins, number average MW >700 - <1100	25068-38-6	A
C9 – C10 Aromatic hydrocarbons	64742-95-6	A, F
Coal Tar Pitch	65996-93-2	A, D, F

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

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

<u>Ingredient(s)</u>	<u>CAS No.</u>
Xylenes	1330-20-7

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): 323.53 g/l, (2.70 lb/gal)**Section 112(b) Hazardous Air Pollutants (HAPs):**

42 U.S. Code § 7412 - Hazardous air pollutants

<u>Ingredient(s)</u>	<u>CAS No.</u>
-	-

Ozone Depleting Substances (ODS):

42 U.S. Code § 7671a - Listing of class I and class II substances

<u>Ingredient(s)</u>	<u>CAS No.</u>
-	-

State Regulations**USA, California State Safe Drinking & Toxic Enforcement Act (Proposition 65):** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other harm.

<u>Ingredient(s)</u>	<u>CAS No.</u>
-	-

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

<u>Ingredient(s)</u>	<u>CAS No.</u>
-	-

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

<u>Ingredient(s)</u>	<u>CAS No.</u>
-	-

USA, Michigan Critical Materials Register (CMR) Components:

<u>Ingredient(s)</u>	<u>CAS No.</u>
Xylenes	1330-20-7

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

<u>Ingredient(s)</u>	<u>CAS No.</u>
Xylenes	1330-20-7
Coal Tar Pitch	65996-93-2

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

<u>Ingredient(s)</u>	<u>CAS No.</u>
Xylenes	1330-20-7

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[®] Corporation.

Revision: 2-07292015, Product Code: C247-B-0B1

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

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to its use in combination with any other material or in any other process.

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