

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

GHS Product Code: N110-B-0R1  
 Product Name: NOVA™ 110 SELF-LEVELING EPOXY COMPONENT A, COLOR: TILE RED  
 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 (U.S. TOLL-FREE: 800-535-5053)  
 Contract No. 74435  
 Revision: 2-10212015

## SECTION 2: HAZARDS IDENTIFICATION

### GHS Classification

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

### 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.  
 H319: Causes serious eye irritation.  
 H401: 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.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 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.  
 P309 + P313: If exposed or you feel unwell: Get Medical advice/attention.

PERSONAL PROTECTION INDEX			
A	Goggles	G	Goggles + Gloves + Respirator
B	Goggles + Gloves	H	Face Shield + Gloves + Boots + Respirator
C	Goggles + Gloves + Boots	I	Goggles + Gloves + Respirator
D	Face Shield + Gloves + Boots	J	Face Shield + Gloves + Boots + Respirator
E	Goggles + Gloves + Respirator	K	Face Shield + Gloves + Boots + Respirator
F	Goggles + Gloves + Boots + 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		



**2012 ERG GUIDEBOOK # 159**

P333 + 313:	If skin irritation or a rash occurs: Get medical advice/attention.
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).
P403 + P233:	Store in a well ventilated place. Keep container tightly closed.
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>
Bisphenol A - epoxy resins, number average MW >700 - <1100	25068-38-6	<50
CBI Additives [NOT REGULATED]	MIXTURE	>50

---

### SECTION 4: FIRST AID MEASURES

---

#### 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.

#### 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.

#### 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.

#### 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.

#### 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

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, aldehydes, Formaldehyde, 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).

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: >400°F (204°C)

### Explosive Limit

Not established

### Autoignition Temperature

Not Established

### Hazardous Products of Combustion

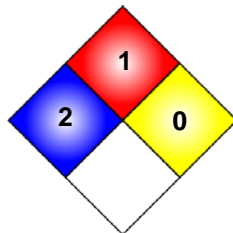
Burning may produce noxious and toxic fumes. Decomposition products may be toxic and include the following materials: carbon dioxide, carbon monoxide, and various hydrocarbons. Fumes and vapors from the thermal and chemical decompositions vary widely in combustion and toxicity.

### 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

**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 (8°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)

**Note:** The table includes Occupational Exposure Limits (OELs) for substances listed in the OSHA Z-1 – Z-3 tables as well as OEL's listed by NIOSH and ACGIH. These organizations periodically make revisions to their OELs and so they should be consulted directly for their most current values and substances, as well as special notations such as for skin absorption. The TLVs<sup>®</sup> and BEIs<sup>®</sup> are copyrighted by ACGIH<sup>®</sup> and are not publicly available. However, they can be purchased in their entirety from the ACGIH<sup>®</sup>. Permission must be requested from ACGIH<sup>®</sup> to reproduce the TLVs<sup>®</sup> and BEIs<sup>®</sup>, CORCHEM<sup>®</sup> is a registered member of ACGIH<sup>®</sup>.

### Authorities:

**ACGIH** The American Conference of Governmental Industrial Hygienists

**NIOSH** United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health

**OSHA** United States Department of Labor, Occupational safety and Health Administration

**BEI<sup>®</sup>** Biological Exposure Indices: the BEI<sup>®</sup> is a guideline for the control of potential health hazards to the worker by knowledgeable occupational health professionals and should not be used for any other purpose.

**IDLH** Immediately Dangerous to Life and Health: is defined by (NIOSH) as exposure to airborne contaminants that is "likely to cause death or immediate or delayed permanent adverse health effects or prevent escape from such an environment."

The OSHA regulation (1910.134(b)) defines the term as "an atmosphere that poses an immediate threat to life, would cause irreversible adverse health effects, or would impair an individual's ability to escape from a dangerous atmosphere."

IDLH values are often used to guide the selection of breathing apparatus that are made available to workers or firefighters in specific situations.

**mg/m<sup>3</sup>** Approximate milligrams of substance per cubic meter of air.

**PEL** Permissible Exposure Limit: usually given as a time-weighted average (TWA). A TWA is the average exposure over a specified period of time, usually a nominal eight hours.

**ppm** Parts of vapor or gas per million parts of contaminated air by volume at 25 degrees C and 760 torr.

**REL** Recommended Exposure Limit: is an occupational exposure limit that has been recommended by NIOSH to OSHA for adoption as a permissible exposure limit. The REL is a level that NIOSH believes would be protective of worker safety and health over a working lifetime if used in combination with engineering and work practice controls, exposure and medical monitoring, posting and labeling of hazards, worker training and personal protective equipment. Although not legally enforceable limits, NIOSH RELs are considered by OSHA during the promulgation of legally enforceable PELs.

**TLV<sup>®</sup>** Threshold Limit Value: TLVs<sup>®</sup> refer to airborne concentrations of chemical substances and represent conditions under which it is believed that *nearly all* workers may be repeatedly exposed, day-after-day, over a working lifetime, without adverse health effects.

**TLV-C** Threshold Limit Value-Ceiling: The concentration that should not be exceeded during any part of the working exposure.

**TLV-STEL** Threshold Limit Value-Short Term Exposure Limit: a 15 minute TWA exposure that should not be exceeded at any time during a work day, even if the 8-hour TWA is within the TLV-TWA.

**TLV-TWA** Threshold Limit Value-Time Weighted Average: the Time Weighted Average concentration for a conventional 8-hour workday and a 40-hour workweek to which it is believed that nearly all workers may be repeatedly exposed, day-after-day for a working lifetime without adverse effects.

**TWA** Time Weighted Average: is the employee's average airborne exposure in any 8-hour work shift of a 40-hour work week which shall not be exceeded.

<b>Component(s)</b>	<b>Exposure Level</b>	<b>Authority</b>	<b>Adopted Value(s)</b>		<b>Note</b>
Bisphenol A - epoxy resins, number average MW >700 - <1100	IDLH	NIOSH	-	-	IDLH Not Determined
Bisphenol A - epoxy resins, number average MW >700 - <1100	PEL	OSHA	-	-	OEL Not Established
Bisphenol A - epoxy resins, number average MW >700 - <1100	TLV-TWA	ACGIH	-	-	OEL Not Established
Bisphenol A - epoxy resins, number average MW >700 - <1100	REL-CEIL	NIOSH	-	-	OEL Not Established

## 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. Use protective barrier creams on exposed skin areas.

### 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.

### 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

---

<b>Appearance (physical state, color, etc.):</b>	Viscous red liquid
<b>Odor:</b>	Slight
<b>Odor Threshold:</b>	Not available
<b>pH:</b>	6 – 8
<b>Melting Point / Freezing Point:</b>	Not available
<b>Initial Boiling Point and Range:</b>	>392° F (>200° C)
<b>Flash Point:</b>	Estimated: >400°F (204°C)
<b>Evaporation Rate:</b>	Not available.
<b>Flammability (solid, gas):</b>	Not applicable.
<b>Upper/Lower flammability or explosive limits:</b>	Not available.
<b>Vapor Pressure:</b>	Not available.
<b>Vapor Density:</b>	Not available.
<b>Relative Density:</b>	Not available.
<b>Solubility:</b>	Insoluble
<b>Partition coefficient: <i>n</i>- octanol/water:</b>	Not available.
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available.
<b>Volatile Organic Compounds (VOC):</b>	0.00 lbs/gal (0.00 g/l) by volume.
<b>Percent solids by weight:</b>	100.00
<b>Percent solids by volume:</b>	100.00
<b>Specific Gravity:</b>	1.832 @ 68.0° F (20.00° C)
<b>Weight per gallon:</b>	15.29 lbs.

---

## SECTION 10: STABILITY AND REACTIVITY

---

### 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):

Strong acids or bases in bulk and elevated temperatures.

### 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:** If inhaled, may cause respiratory irritation. Adverse symptoms may include respiratory tract irritation and/or coughing.

**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 serious eye irritation. Adverse symptoms may include pain, irritation, watering, and/or redness.

#### Acute Toxicity Data

Product/ingredient name	Method	Species	Dose	Exposure	Result
Bisphenol A - epoxy resins, number average MW >700 - <1100	OECD 420 Oral	Rat	>2,000 mg/kg	–	LD <sub>50</sub>
Bisphenol A - epoxy resins, number average MW >700 - <1100	OECD 402 Dermal	Rabbit	>2,000 mg/kg	–	LD <sub>50</sub>
Bisphenol A - epoxy resins, number average MW >700 - <1100	OECD 403 Inhalation	Rat	29 mg/l	–	LC <sub>50</sub>
Bisphenol A - epoxy resins, number average MW >700 - <1100	OECD 404 Dermal	Rabbit	–	4 h	Mild irritant
Bisphenol A - epoxy resins, number average MW >700 - <1100	OECD 405 Eyes	Rat	–	4 h	Mild irritant

**OECD:** 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

Irritating to 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.

Component	Test	Result
Bisphenol A - epoxy resins, number average MW >700 - <1100	In vivo	Negative

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

#### Carcinogenicity

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

Component	Classification	Listing Body
Bisphenol A - epoxy resins, number average MW >700 - <1100	Not Listed	IARC
Bisphenol A - epoxy resins, number average MW >700 - <1100	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.

### Teratogenicity/Reproductive toxicity

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

Component	Test	Result
Bisphenol A - epoxy resins, number average MW >700 - <1100	OECD 414	Negative
Bisphenol A - epoxy resins, number average MW >700 - <1100	OECD 416	Negative

**OECD:** Organization for Economic Cooperation and Development.  
**LOEL:** "Lowest-observed-effect-level".  
**NOAEL:** "No-observed-adverse-effect level".  
**OECD Test Method 414:** Prenatal development toxicity study.  
**OECD Test Method 416:** Two-generation reproductive toxicity study.

### 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
Bisphenol A - epoxy resins, number average MW >700 - <1100	OECD 408	NOAEL	Rat	50 mg/kg
Bisphenol A - epoxy resins, number average MW >700 - <1100	OECD 411	NOAEL	Rat	10 mg/kg

**OECD:** Organization for Economic Cooperation and Development.  
**LOEL:** "Lowest-observed-effect-level".  
**NOAEL:** "No-observed-adverse-effect level".  
**OECD Test Method 408:** Repeated dose oral toxicity: 90-day study.  
**OECD Test Method 411:** Sub-chronic dermal toxicity: 90-day study.

---

## 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
Bisphenol A - epoxy resins, number average MW >700 - <1100	LC <sub>50</sub>	Leuciscus idus (golden orfe)	2.6 mg/l	96 h

##### Toxicity to aquatic invertebrates

Product/ingredient name	Test	Species	Dose	Exposure
Bisphenol A - epoxy resins, number average MW >700 - <1100	EC <sub>50</sub>	Daphnia magna (water flea)	1.7 mg/l	48 h

#### Persistence and degradability

Product/ingredient name	Test	Concentration	Result
Bisphenol A - epoxy resins, number average MW >700 - <1100	Aerobic 28-days	5%	Not readily biodegradable

#### Bioaccumulative potential

Product/ingredient name	Log K <sub>ow</sub>	BCF	Potential
Bisphenol A - epoxy resins, number average MW >700 - <1100	3.8	31	Low



## Mobility in soil

### Product/ingredient name

Bisphenol A - epoxy resins, number average MW >700 - <1100 No data available

## 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	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A 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)



HMIS	
2	Health
1	Flammability
0	Physical Hazard
D	Personal Protection



### TRANSPORT CANADA

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A 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 A 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)
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 A 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: 118.9 US-Gal (450 L) Packaging instruction: 964

	Special Provision:	97, A158, A197
Cargo Aircraft Only	Quantity limitation:	118.9 US-Gal (450 L)
	Packaging instruction:	964
	Special Provision:	A97, A158, A197
ICAO ERG Code		9L

**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

Nombre propio del transporte	Sustancia peligrosa ambientalmente, líquido, n.o.s. (solución de resina de epoxi Bisphenol A)	
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)

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

**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:	No
Category F:	Fire Hazard:	No
Category R:	Reactive Hazard:	No
Category S:	Sudden Release of Pressure Hazard:	No

<u>Ingredient(s)</u>	<u>CAS No.</u>	<u>Category</u>
Bisphenol A - epoxy resins, number average MW >700 - <1100	25068-38-6	A

**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>
-	-

**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): 0.00 g/l, (0.00 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 and/or birth defects or other reproductive 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<sup>®</sup> Manufacturing, Inc.

Revision: 2-10212015      Product ID: N110-B-0R1

**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 (SDS) 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.

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of CORCHEM<sup>®</sup> Manufacturing, Inc.

