Page: 1 of 4 Process Time: 8:16 am

Date Printed: 9/12/17 Date Revised: 8/3/15

MANUFACTURER: SIERRA CORP/TK PRODUCTS EMERGENCY PHONE: 1-800-424-9300 ADDRESS: 11400 WEST 47TH STREET INFORMATION PHONE: (952)938-7223 MINNETONKA, MN 55343 NAME OF PREPARER: Safety Director

PRODUCT NAME: TK-2110 BRIDGE DECK & CRACK SEALER, PT A

PRODUCT CODE: TK-2110 A

HAZARD RISK CLASSIFICATION

SIGNAL WORD: DANGER

PICTOGRAM:

GHS07 - EXCLAMATION MARK GHS09 - ENVIRONMENT

HAZARD CATEGORY HAZARD CLASS

CATEGORY 4 ORAL ACUTE TOXICITY CATEGORY 4 DERMAL ACUTE TOXICITY CATEGORY 4 INHALATION ACUTE TOXICITY

CATEGORY 2 SKIN CORROSION /

IRRITATION

CATEGORY 2 AND 2A SERIOUS EYE DAMAGE /

EYE IRRITATION

CATEGORY 1 SKIN SENSITIZER HAZARDOUS TO THE AQUATIC CHRONIC 2

ENVIRONMENT LONG-TERM (CHRONIC)

HAZARD STATEMENTS:

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled

н313 May be harmful in contact with skin

Causes skin irritation H315

May cause allergic skin reaction H317 Causes serious eye irritation. H319

Toxic to aquatic life with long lasting effects H411

### PRECAUTIONARY STATEMENTS:

PREVENTION:

Avoid breathing dust/fume/gas/mist/vapor/ spray. P261

Wash hands and any exposed area thoroughly after handling. P264

Do not eat, drink or smoke while using this product. P270

Use only outdoors or in well-ventilated area. P271

Contaminated work clothing should not be allowed out of the P272

workplace.

P273 Avoid release to the environment.

Wear protective impervious gloves/ OSHA approved eye

protection/face protection.

RESPONSE:

P301+P310 If swallowed: Immediately call a Poison Center / doctor.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin: Wash with plenty of water. P302+P352

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for

breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTER/doctor if you feel unwell. P312

Page: Process Time:

2 of 4 8:16 am

Date Revised:	8/3/15 Date Printed: 9/12/17	
P321	Specific treatment (see on this label)	
P322	Specific measures (see on this label)	
P330	Rinse mouth.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention	
P337+P313	If eye irritation persists: Get medical advice/attention.	
P362	Take off contaminated clothing and wash before reuse.	
P363	Wash contaminated clothing before reuse.	

STORAGE:

P405 Store locked up.

DISPOSAL:

P501 Store separately. Dispose of contents/ container in accordance with local/ regional/national /international regulations.

========= SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS ========== EXPOSURE LIMITS WEIGHT OSHA PEL ACGIH TLV PERCENT CAS NUMBER COMPONENT 50 - 75 Epichlorohydrin Copolymer 25068-38-6 NOT ESTABLISHED 18.5 2210-79-9 +\* O-CRESYL GLYCIDYLETHER 13048-33-4 10-25 \* Hexanediol Diacrylate 15625-89-5 \* Trimethylolpropane Triacrylate

- \* Chemical(s) that are chronic health hazards. Refer to section 3 for further information.
- + Toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

# PRIMARY ROUTES OF EXPOSURE:

Skin contact.

### EFFECTS OF ACUTE EXPOSURE:

EYES: Direct contact with eyes may cause irritation.

SKIN: Prolonged or repeated contact may cause irritation.INHALATION: Inhalation of vapor or mist can cause irritation of nose, throat and lungs and lead to headaches and nausea.

INGESTION: Not an anticipated route of exposure. Small amounts are not expected to be harmful.

### CHRONIC HEALTH EFFECTS:

Although some components may indicate chronic exposure effects, no effects are anticipated under normal use conditions due to the relatively low proportion in the total mixture.

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

No known effects on other illnesses.

EYES: Flush with large amounts of water for 15 minutes, lifting upper and lower eyelids. If irritation persists seek medical attention.

SKIN CONTACT: Wash contaminated area with soap and water. Remove and launder contaminated clothing.

INGESTION: If a large amount is ingested, give water or milk and induce vomitting. Seek medical attention.

INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult. If breathing has stopped administer artificial respiration. Seek medical attention if condition persists.

FLASH POINT: Greater than 200 F

METHOD USED: PMCC UPPER: n/a

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: n/a

### EXTINGUISHING MEDIA:

This material will not burn in its liquid state unless heated above its flash point. Dried films may burn and can be extinguished by water spray, foam, dry chemical or carbon dioxide.

### SPECIAL FIREFIGHTING PROCEDURES:

Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment. Isolate danger area, keep unauthorized personnel out.

Page: Process Time:

3 of 4 8:16 am

Date Revised: 8/3/15

Date Printed: 9/12/17

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

There is the possibility of pressure buildup in closed containers when heated. Water spray may be used to cool these containers.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Do not let uncured spilled or leaking material enter watercourse. May be toxic to aquatic life. Absorb with oil-dri or similar inert material. Sweep or scrape up and containerize. Rinse affected area thoroughly with water. Wear appropriate protective equipment.

#### HANDLING INFORMATION:

Employees who come in contact with this material must be trained in accordance to 1910.1200 of the Hazard Communicatin Standard. Wear chemical resistant gloves and protective clothing to minimize contact. The use of respiratory protection is advised when spraying because of mist and dust overspray.

#### STORAGE INFORMATION:

Keep containers tightly closed. Use and store material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post "No smoking or open flame" sign. Store only in approved containers. Keep away from incompatible materials (see section 10). Protect containers against physical damage. Indoor storage should meet OSHA standards and appropriate fire codes.

#### OTHER PRECAUTIONS:

All empty containers should be disposed of in an environmentally safe manner in accordance with all governmental regulations.

======== SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ========== RESPIRATORY PROTECTION:

No special requirements under normal use conditions. In confined areas, or areas with poor ventilation, engineering controls should be used to minimize exposure. Use NIOSH/MSHA approved respirator if conditions warrant.

### VENUTTATION:

General room ventilation is adequate.

### PROTECTIVE GLOVES:

Prevent prolonged or repeated contact by wearing chemical resistant gloves and other appropriate protective clothing. Launder contaminated clothing before reuse.

### EYE PROTECTION:

Wear safety glasses to reduce eye contact potential. Chemical safety goggles (ANSI Z87.1 or approved equivalent) are appropriate if splashing is likely. Eye washes must be available where eye contact can occur.

### OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

A source of clean water should be available for flushing eyes and skin. Showers should be available if larger spills are possible.

### WORK/HYGIENIC PRACTICES:

Efforts should be made to minimize contact and spills. Always wash hands before eating, drinking, or smoking. Clean up spills promptly. Follow OSHA and company guidelines.

PHYSICAL STATE: Liquid

COLOR: Clear (Water white)

SPECIFIC GRAVITY (H2O=1): 1.11

SOLUBILITY IN WATER: Insoluble/Negligible

VAPOR DENSITY: Heavier than air.

BOILING RANGE:

ODOR: Odorless.

EVAPORATION RATE: Slower than nBuAc

COATING V.O.C.: 0 g/l (0.0 lb/gl)

STABILITY:

Stable under normal conditions and handling.

CONDITIONS TO AVOID:

None known

# INCOMPATIBILITY (MATERIALS TO AVOID):

Avoid exposure to strong oxidizing agents and reducing agents.

### HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Combustion may liberate toxic byproducts such as carbon dioxide, and carbon monoxide, various oxides of carbon and nitrogen. Thermal decomposition may liberate acrylic monomers and ammonia.

Page: Process Time:

4 of 4 8:16 am

Date Printed: 9/12/17 Date Revised: 8/3/15

HAZARDOUS POLYMERIZATION:

Will not occur.

SENSITIZATION:

Product is a skin sensitizer; sensitization can be severe in susceptible individuals.

CARCINOGENICITY:

There is no data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard. REPRODUCTIVE TOXICITY:

There is no data available to indicate any components present at greater than 0.1% may present reproductive toxicity. TERATOGENICITY (BIRTH DEFECTS):

There is no data available to indicate any components present at greater than 0.1% may cause birth defects.

MUTAGENICITY:

There is no data to indicate that any component present at greater than 0.1% will alter DNA.

ENVIRONMENTAL DATA:

Although no information is available for this specific product mixture, individual components may by themselves may have ecological affects.

This product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261, however, state and local regulations may be more restrictive. Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations.

SHIPPING NAME:

Not regulated.

All ingredients of this product are listed, or are excluded from listing, on the US Toxic Substances Control Act (TSCA) chemical substance inventory.

This product does contain a chemical(s) subject to the reporting requirements of SARA Title III, Section 313 (40CFR 372). See section 2.

STATE SPECIFIC REQUIREMENTS:

This product contains a chemical(s) known to the state of California to cause cancer, birth defects or reproductive harm, which are subject to the requirements of California Proposition 65. Phenylglycidyl ether (trace amounts)

STATE LISTED COMPONENTS

CAS NUMBER

STATE CODE

Phenylglycidyl Ether

122-60-1

CA

REVISION DATE: 08/03/15

HMIS CODES: H

F

R 0

P В

2 1

Page: Process Time:

1 of 5 8:23 am

Date Revised: 8/3/15

Date Printed: 9/12/17

MANUFACTURER: SIERRA CORP/TK PRODUCTS EMERGENCY PHONE: 1-800-424-9300 ADDRESS: 11400 WEST 47TH STREET INFORMATION PHONE: (952)938-7223 MAME OF PREPARER: Safety Director

PRODUCT NAME: TK-2110 BRIDGE DECK & CRACK SEALER, PT B

PRODUCT CODE: TK-2110 B

HAZARD RISK CLASSIFICATION

SIGNAL WORD: DANGER

PICTOGRAM:

GHS05 - CORROSION GHS06 - SKULL AND CROSSBONES GHS07 - EXCLAMATION MARK GHS08

HEALTH HAZARD GHS09 - ENVIRONMENT

#### HAZARD CATEGORY HAZARD CLASS

CATEGORY 2 ORAL ACUTE TOXICITY CATEGORY 2 INHALATION

ACUTE TOXICITY CATEGORY 3 DERMAL ACUTE TOXICITY

CATEGORY 1 SKIN CORROSION /

IRRITATION

CATEGORY 1 SERIOUS EYE DAMAGE /

EYE IRRITATION

CATEGORY 1 RESPIRATORY SENSITIZER CATEGORY 1 SKIN SENSITIZER CATEGORY 2 GERM CELL MUTAGENICITY CATEGORY 3 TOXIC TO SPECIFIC TARGET ORGAN

TOXICITY - SINGLE EXPOSURE

TOXIC TO SPECIFIC TARGET ORGAN CATEGORY 2

TOXICITY - REPEATED EXPOSURE

CHRONIC 2 HAZARDOUS TO THE AQUATIC

ENVIRONMENT LONG-TERM (CHRONIC)

### HAZARD STATEMENTS:

Fatal if swallowed H300 H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled

H302+H312 Harmful if swallowed or in contact with skin
H312 Harmful in contact with skin
Causes severe skin burns and eye damage

May cause allergic skin reaction H317

Causes serious eye damage H318

н330 Fatal if inhaled

May cause allergy or asthma symptoms or breathing difficulties if H334

inhaled

May cause respiratory irritation H335 Suspected of causing genetic defects H341

May cause damage to organs through prolonged or repeated н373

exposure.

Toxic to aquatic life with long lasting effects H411

# PRECAUTIONARY STATEMENTS:

### PREVENTION:

Obtain special instructions before use. P201

Do not handle until all safety precautions have been read and P202

Page: 2 of 5 Process Time: 8:23 am

Date Printed: 9/12/17 Date Revised: 8/3/15 understood. Do not breath dusts/fume/gas/mist/vapors or spray. P260 Wash hands and any exposed area thoroughly after handling. P264 Do not eat, drink or smoke while using this product. P270 Use only outdoors or in well-ventilated area. P271 Contaminated work clothing should not be allowed out of the P272 workplace. Avoid release to the environment. P273 Wear protective impervious gloves/ OSHA approved eye P280 protection/face protection. (In case of inadequate ventilation) wear respiratory protection. In case of inadequate ventilation wear appropriate organic vapor P285 respiratory protection. RESPONSE: If swallowed: Immediately call a Poison Center / doctor. P301+P310 P301+P330+P331 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 (or shower). If inhaled: Remove person to fresh air and keep comfortable for P304+P340 breathing. P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call poison center / doctor. P310+P233 Call a POISON CENTER/doctor if you feel unwell. P312 Specific treatment is urgent (see . . . on this label). P320 Specific treatment (see on this label) P321 Specific measures (see on this label) P322 Rinse mouth. P330 If skin irritation or rash occurs: Get medical advice/attention. P333+P313 If experiencing respiratory symptoms: Call a Poison P342+P311 Center/doctor. Take off immediately all contaminated clothing. P361 Wash contaminated clothing before reuse. P363 Collect spillage. P391 STORAGE: Store in a well-ventilated place. Keep container tightly closed. P403+P233 Store locked up. P405 DISPOSAL: Store separately. Dispose of contents/ container in accordance P501 with local/ regional/national /international regulations. ========= SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS =========== WEIGHT EXPOSURE LIMITS PERCENT OSHA PEL ACGIH TLV OTHER CAS NUMBER COMPONENT 25-50 \* POLYALKYLAMINE 111-40-0 25-50 \* DiethyleneTriamine, DETA 1.0 PPM 1.0 PPM 90-72-2 Aliphatic Amine 5 PPM (SKIN) 108-95-2 2.4 + Phenol 5 PPM 5 PPM

<sup>\*</sup> Chemical(s) that are chronic health hazards. Refer to section 3 for further information.

Page: Process Time:

3 of 5 8:23 am

Date Revised: 8/3/15

Date Printed: 9/12/17

+ Toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

#### PRIMARY ROUTES OF EXPOSURE:

Skin contact.

#### EFFECTS OF ACUTE EXPOSURE:

EYES: Corrosive to eyes. Contact with eyes may cause severe irritation and burns.

SKIN: Corrosive to skin and mucous membranes. Contact with skin may cause severe irritation and burns. May be absorbed through skin in toxic amounts.

INHALATION: Inhalation of vapor or mist can cause irritation of nose, throat and lungs and lead to headaches and nausea.

INGESTION: Not an anticipated route of exposure. Small amounts are not expected to be harmful. Can cause gastrointestinal irritation, nausea, vomiting and diarrhea. Small amounts aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.

#### CHRONIC HEALTH EFFECTS:

Although some components may indicate chronic exposure effects, no effects are anticipated under normal use conditions due to the relatively low proportion in the total mixture.

#### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

No known effects on other illnesses.

EYES: Flush with large amounts of water for 15 minutes, lifting upper and lower eyelids. If irritation persists seek medical attention.

SKIN CONTACT: Wash contaminated area with soap and water. Remove and launder contaminated clothing.

INGESTION: If a large amount is ingested, give water or milk and induce vomitting. Seek medical attention.

INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult. If breathing has stopped administer artificial respiration. Seek medical attention if condition persists.

FLASH POINT: Greater than 200 F

METHOD USED: PMCC UPPER: 11.6

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.9

EXTINGUISHING MEDIA:

This material will not burn in its liquid state unless heated above its flash point. Dried films may burn and can be extinguished by water spray, foam, dry chemical or carbon dioxide.

### SPECIAL FIREFIGHTING PROCEDURES:

Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment. Isolate danger area, keep unauthorized personnel out.

### UNUSUAL FIRE AND EXPLOSION HAZARDS:

There is the possibility of pressure buildup in closed containers when heated. Water spray may be used to cool these containers.

Do not let uncured spilled or leaking material enter watercourse. May be toxic to aquatic life. Absorb with oil-dri or similar inert material. Sweep or scrape up and containerize. Rinse affected area thoroughly with water. Wear appropriate protective equipment.

### HANDLING INFORMATION:

Employees who come in contact with this material must be trained in accordance to 1910.1200 of the Hazard Communicatin Standard. Wear chemical resistant gloves and protective clothing to minimize contact. The use of respiratory protection is advised when spraying because of mist and dust overspray.

### STORAGE INFORMATION:

Keep containers tightly closed. Use and store material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Post "No smoking or open flame" sign. Store only in approved containers. Keep away from incompatible materials (see section 10). Protect containers against physical damage. Indoor storage should meet OSHA standards and appropriate fire codes.

OTHER PRECAUTIONS:

Page: Process Time:

4 of 5 8:23 am

Date Revised: 8/3/15

Date Printed: 9/12/17

All empty containers should be disposed of in an environmentally safe manner in accordance with all governmental regulations.

======== SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ========== RESPIRATORY PROTECTION:

No special requirements under normal use conditions. In confined areas, or areas with poor ventilation, engineering controls should be used to minimize exposure. Use NIOSH/MSHA approved respirator if conditions warrant.

General room ventilation is adequate.

PROTECTIVE GLOVES:

Prevent prolonged or repeated contact by wearing chemical resistant gloves and other appropriate protective clothing. Launder contaminated clothing before reuse.

EYE PROTECTION:

Wear safety glasses to reduce eye contact potential. Chemical safety goggles (ANSI Z87.1 or approved equivalent) are appropriate if splashing is likely. Eye washes must be available where eye contact can occur.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

A source of clean water should be available for flushing eyes and skin. Showers should be available if larger spills are possible.

WORK/HYGIENIC PRACTICES:

Efforts should be made to minimize contact and spills. Always wash hands before eating, drinking, or smoking. Clean up spills promptly. Follow OSHA and company guidelines.

PHYSICAL STATE: Liquid

COLOR: Clear (Water white)

ODOR: Amine or ammonia odor

SOLUBILITY IN WATER: Dilutable VAPOR DENSITY: Heavier than air.

SPECIFIC GRAVITY (H2O=1): .96

EVAPORATION RATE: Slower than nBuAc

BOILING RANGE:

COATING V.O.C.: 23 g/l (0.19 lb/gl )

Stable under normal conditions and handling.

CONDITIONS TO AVOID:

None known

STABILITY:

INCOMPATIBILITY (MATERIALS TO AVOID):

Avoid exposure to strong oxidizing agents and reducing agents.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Combustion may liberate toxic byproducts such as carbon dioxide, and carbon monoxide, various oxides of carbon and nitrogen. Thermal decomposition may liberate acrylic monomers and ammonia.

HAZARDOUS POLYMERIZATION:

Will not occur.

SENSITIZATION:

None known.

CARCINOGENICITY:

There is no data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.

REPRODUCTIVE TOXICITY:

There is no data available to indicate any components present at greater than 0.1% may present reproductive toxicity. TERATOGENICITY (BIRTH DEFECTS):

There is no data available to indicate any components present at greater than 0.1% may cause birth defects.

There is no data to indicate that any component present at greater than 0.1% will alter DNA.

ENVIRONMENTAL DATA:

No known effects or critical hazards. No data available.

This product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261, however, state and local regulations may be more restrictive. Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. Incinerate liquid and contaminated solids in accordance with local, state, and federal regulations.

Page: Process Time:

5 of 5 8:23 am

Date Revised: 8/3/15

Date Printed: 9/12/17

UN2922, Corrosive Liquid, Toxic, N.O.S., (Diethylenetriamine, Phenol), 8, (6.1), III

All ingredients of this product are listed, or are excluded from listing, on the US Toxic Substances Control Act (TSCA) chemical substance inventory.

This product does contain a chemical(s) subject to the reporting requirements of SARA Title III, Section 313 (40CFR 372). See section 2.

STATE SPECIFIC REQUIREMENTS:

This product does not contain a chemical known to the state of California to cause cancer, birth defects or reproductive harm, subject to the requirements of California Proposition 65.

STATE LISTED COMPONENTS

CAS NUMBER

STATE CODE

P

В

REVISION DATE: 08/03/15

3

HMIS CODES: H

F

F 1

R

0