

# Safety Data Sheet



**Petra CVC – PART A**

## 1. IDENTIFICATION

24 HOUR EMERGENCY ASSISTANCE	MANUFACTURER/GENERAL MSDS ASSISTANCE
CHEM-TEL 1-800-255-3924	<b>Petra Polymers</b> Tel.: (888)-497-3872 1610 E. Miraloma Ave. Placentia, CA 92870

**PRODUCT IDENTIFIER/NAME: Petra CVC– PART A**

**RECOMMENDED USE: Concrete Vapor Control**

## 2. HAZARD(S) IDENTIFICATION

### HAZARD CLASSIFICATION:

Acute Oral Toxicity Category 4  
Acute Dermal Toxicity Category 4  
Skin Corrosion Category 1B  
Serious Eye Damage Category 1  
Skin Sensitizer Category 1  
Respiratory Sensitizer Category 1  
TOST: Single Exposure Category 3

### NFPA ratings (scale 0 – 4):

<b>HEALTH</b>	<b>2</b>
<b>FIRE</b>	<b>1</b>
<b>REACTIVITY</b>	<b>0</b>
<b>SPECIAL</b>	<b>-</b>

### NFPA HAZARD RATING:

4= EXTREME    2= MODERATE    0= INSIGNIFICANT  
3= HIGH        1= SLIGHT



### HAZARD PICTOGRAMS:

**SIGNAL WORD:**        Danger!

**PHYSICAL APPEARANCE:** White viscous liquid with faint sweet odor

### HAZARD STATEMENTS:

**EYE:** May cause severe irritation with corneal injury, which may result in permanent impairment of vision, even blindness. Vapors may irritate eyes.

**SKIN CONTACT:** May cause severe injury to skin following prolonged or repeated contact, and may cause skin sensitization or other allergic responses.

**SKIN ABSORPTION:** A single prolonged exposure may result in the material being absorbed in harmful amounts. The LD<sub>50</sub> for skin absorption has not been determined.

**INGESTION:** Single dose oral toxicity is low. The oral LD<sub>50</sub> has not been determined. Ingestion may cause gastrointestinal irritation or ulceration. Ingestion may cause burns of mouth and throat.

**INHALATION:** May cause respiratory sensitization or asthma in susceptible individuals. Excessive exposure may cause irritation to upper respiratory tract.

**SYSTEMIC & OTHER EFFECTS:** Results of in vitro ("test tube") mutagenicity tests have been negative.

**PRECAUTIONARY STATEMENTS:** Do not breathe dust/fume/gas/mist/vapors/spray. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood. **IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. **IF SWALLOWED:** Get immediate medical advice/attention. **IF exposed or concerned:** Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<i>Modified Amine Reaction Products</i>	(CAS Proprietary)	> 30%
<i>Water</i>	(CAS 7732-18-5)	< 40%
<i>Propoxyethanol</i>	(CAS 2807-30-9)	< 10%
<i>Acetic acid</i>	(CAS 64-19-7)	< 3%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not Hazardous per this OSHA Standard may be listed. Where proprietary Ingredient shows, the identity may be made available as provided in this standard.

### 4. FIRST AID MEASURES

**EYES:** Immediate and continuous irrigation with flowing water for at least 30 minutes is required. Promptly seek medical attention.

**SKIN:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing, preferably under a safety shower. Seek medical attention immediately. Avoid prolonged or repeated contact to skin. Wash thoroughly after handling.

**INGESTION:** Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

**INHALATION:** Remove to fresh air if effects occur. Consult a physician.

#### NOTE TO PHYSICIAN:

**Symptoms:** Damage to blood forming organs may be evidenced by easy fatigability and pallor (RBC EFFECT). Damage to blood forming organs may be evidenced by decreased resistance to infection (WBC EFFECT) also evidenced by excessive bruising and bleeding (PLATELET EFFECT).

**Treatment:** Treat symptomatically. Prolonged or repeated exposure may result in eye damage, with the possibility of restricted peripheral vision.

### 5. FIRE-FIGHTING MEASURES

**FLASH POINT:** >200°F

**METHOD USED:** PMCC

#### FLAMMABLE LIMITS

**LFL:** Not Determined

**UFL:** Not Determined

**EXTINGUISHING MEDIA:** Water fog, alcohol foam, CO<sub>2</sub>, dry chemical.

**FIRE & EXPLOSION HAZARDS:** Material will not burn unless preheated. Use full protective clothing

**FIRE-FIGHTING EQUIPMENT:** Use a positive pressure, self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

**ACTION TO TAKE FOR SPILLS/LEAKS:** Large spill -- dike up and pump into appropriate containers. Small spill -- use noncombustible absorbent material/sand and shovel into suitable containers.

**DISPOSAL METHOD:** Large quantities should be recovered. Collect small quantities in waste metal drums and seal for removal to an approved landfill, or incinerate in accordance with local, state, and federal regulations.

## 7. HANDLING AND STORAGE

**SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Practice good caution and personnel cleanliness to avoid skin and eye contact. Avoid breathing vapors of heated material.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**VENTILATION:** Good room ventilation usually adequate for most operations.

**RESPIRATORY PROTECTION:** None normally needed.

**SKIN PROTECTION:** For brief contact, no precautions other than clean body-covering clothing should be needed. Use impervious gloves when prolonged or frequently repeated contact could occur.

**EYE PROTECTION:** Use chemical goggles.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT:** 212-300° F

**VAP PRESS:** < 27 mbar @ 68°F

**VAP DENSITY:** > 1

**SOL. IN WATER:** Miscible

**SP. GRAVITY:** 1.08-1.11

**APPEARANCE:** White liquid.

**ODOR:** Faint ether / ammonia odor

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions (CONDITIONS TO AVOID) Excess heating, flames, sparks.

**INCOMPATIBILITY:** (SPECIFIC MATERIALS TO AVOID) Strong oxidizing agents, strong Lewis or mineral acids and strong mineral and organic bases.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute oral toxicity:

<i>Propoxyethanol</i>	<b>LD50</b>	<b>3,089 mg/kg (rat)</b>
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<i>Acetic acid</i>	<b>LD50</b>	<b>3,539 mg/kg (rat)</b>
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### Acute dermal toxicity:

<i>Propoxyethanol</i>	<b>LD50</b>	<b>870 mg/kg (rabbit)</b>
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<i>Acetic acid</i>	<b>LD50</b>	<b>3,400 mg/kg (guinea pig)</b>
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### Acute inhalation toxicity:

<i>Propoxyethanol</i>	<b>LC50</b>	<b>2,024 mg/l (mouse) 4H</b>
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<i>Acetic acid</i>	<b>LC50</b>	<b>2,810 mg/l (mouse) 4H</b>
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**CHRONIC HEALTH HAZARDS:** Above components have not been classified by the International Agency for Research on Cancer (IARC).

**REPEATED DOSE TOXICITY:** Chronic inhalation exposure to Propoxyethanol caused fetotoxicity and postnatal developmental toxicity in laboratory animals. Ethylene Glycol monopropyl ether caused red

blood cell rupture (hemolysis) in many animal species, with secondary effects in the kidney, liver and spleen. The human red blood cell is much less sensitive to hemolysis, so these effects in animals may not be relevant to human exposure

## 12. ECOLOGICAL INFORMATION

**BIODEGRADIBILITY:** The solvent is readily biodegradable, but the product contains components that are persistent in the environment.

**BIOACCUMULATION:** Not expected to bioaccumulate significantly.

### ECOTOXICITY EFFECTS:

**TOXICITY TO FISH:** Expected to be practically non toxic LC/EC/IC 50 >100mg/l

**TOXICITY TO ALGAE:** Expected to be practically non toxic LC/EC/IC 50 >100mg/l

### ACUTE TOXICITY:

**INVERTEBRATES:** Expected to be practically non toxic LC/EC/IC 50 >100mg/l

**SEWAGE EQUIPMENT:** Expected to be slightly toxic, 10< LC/EC/IC 50 <=100mg/l

Information based on product data and the toxicology of similar products.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Large quantities should be recovered. Collect small quantities in waste metal drums and seal for removal to an approved landfill, or incinerate in accordance with local, state, and federal regulations. If this product becomes waste, it would not be classified as hazardous waste by RCRA.

## 14. TRANSPORT INFORMATION

Transportation Emergency Number: CHEMTEL 1-800-255-3924.

CFR-ROAD Not Regulated for Transport

IMDG Not Regulated for Transport

IATA-C Not Regulated for Transport

## 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

### NOTIFICATION STATUS

TSCA	All components listed.
EINECS	All components listed or polymer exempt.
DSL	All components listed.
KECI (KR)	All components listed.
PICCS (PH)	Not all components listed.
INV (CN)	Not all components listed.
AICS	Not all components listed.
ENCS (JP)	Not all components listed.

### US. EPA CERCLA HAZARDOUS SUBSTANCE (40 CFR 302)

<i>Aliphatic polyamine</i>	No RQ
<i>Propoxyethanol</i>	No RQ
<i>Acetic acid</i>	Reportable quantity: 5,000 lbs
<i>Water</i>	No RQ

### SARA 311/312 HAZARDS

Acute Health Hazard

**US. EPA Emergency Planning and Community Right-to-Know Act (EPRCA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) – Supplier Notification Required**

<i>Aliphatic polyamine</i>	No De minimis Concentration
<i>Propoxyethanol</i>	De minimis concentration: 1.0%

The mixture or trade name product contains a toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

<i>Acetic acid</i>	No De minimis Concentration
<i>Water</i>	No De minimis Concentration

**U.S. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)**

<i>Aliphatic polyamine</i>	Threshold Planning Quantity: No TPQ
<i>Propoxyethanol</i>	Threshold Planning Quantity: No TPQ
<i>Acetic Acid</i>	Threshold Planning Quantity: No TPQ
<i>Water</i>	Threshold Planning Quantity: No TPQ
<i>Aliphatic polyamine</i>	Reportable quantity: No RQ
<i>Propoxyethanol</i>	Reportable quantity: No RQ
<i>Acetic acid</i>	Reportable quantity: No RQ
<i>Water</i>	Reportable quantity: No RQ

**16. OTHER INFORMATION**

**Date Revised: 05/06/2015**

**MANUFACTURER'S NAME AND ADDRESS:**

**Petra Polymers  
1610 E. Miraloma Ave.  
Placentia, CA 92870  
Telephone: 714-572-6723**

The information herein is given in good faith, but no warranty expressed or implied is made. Petra Polymers urges users of this product to evaluate its suitability and compliance with local regulations as Petra Polymers cannot foresee the nature of the final application or final location of usage.

# Safety Data Sheet



**Petra CVC – PART B**

## 1. IDENTIFICATION

24 HOUR EMERGENCY ASSISTANCE	MANUFACTURER/GENERAL MSDS ASSISTANCE
CHEM-TEL 1-800-255-3924	<b>Petra Polymers</b> Tel.: (888)-497-3872 1610 E. Miraloma Ave. Placentia, CA 92870

**PRODUCT IDENTIFIER/NAME:** Petra CVC – PART B

**RECOMMENDED USE:** Concrete Vapor Control

## 2. HAZARD(S) IDENTIFICATION

### HAZARD CLASSIFICATION:

Acute Oral Toxicity Category 5  
Skin Irritation Category 2  
Skin Sensitizer Category 1  
Germ Cell Mutagenicity Category 2

### NFPA ratings (scale 0 – 4):

HEALTH	1
FIRE	1
REACTIVITY	0
SPECIAL	-

### NFPA HAZARD RATING:

4= EXTREME    2= MODERATE    0= INSIGNIFICANT  
3= HIGH        1= SLIGHT



### HAZARD PICTOGRAMS:

**SIGNAL WORD:** Warning

**PHYSICAL APPEARANCE:** Clear viscous liquid with faint ether odor

### HAZARD STATEMENTS:

**EYE:** Minor transient irritation. No corneal injury likely.

**SKIN CONTACT:** May cause allergic skin reaction in susceptible individuals. Prolonged exposure not likely to cause significant skin irritation. Repeated exposure may cause skin irritation.

**SKIN ABSORPTION:** A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD<sub>50</sub> for skin absorption in rabbits is 20,000 mg/kg.

**INGESTION:** Low acute oral toxicity; LD<sub>50</sub> (rat) greater than 4000 mg/kg. No hazards anticipated from ingestion incidental to industrial exposure.

**INHALATION:** Vapors are unlikely due to physical properties. Not a problem unless heated to high temperature.

**SYSTEMIC AND OTHER EFFECTS:** Except for skin sensitization, repeated exposures to low molecular weight resins of this type are not anticipated to cause any significant adverse effects. A poorly characterized sample of low molecular weight resin of this type has been reported to produce skin cancer in a highly sensitive strain of mice. However, high levels of impurities compromise the validity of the findings. Similar resin that is representative of current manufacturing processes is not believed to be a cancer hazard to humans. Results of mutagenicity tests in animals have been negative. Has been shown to be negative in some in vitro mutagenicity tests and positive in others.

**PRECAUTIONARY STATEMENTS:** Use personal protective equipment as required to minimize repeated skin exposure. Wash thoroughly after handling. If skin irritation or rash occurs: Wash with plenty of soap and water and avoid repeated exposure. IF ON SKIN: Wash with plenty of soap and water.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<i>Oxirane, 2,2'-4-butyldienebisphenyleneoxymethylene</i>	(CAS 25085-99-8) > 75%
<i>Alkyl Glycidyl Ether</i>	(CAS 68609-97-2) < 10%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not Hazardous per this OSHA Standard may be listed. Where proprietary Ingredient shows, the identity may be made available as provided in this standard.

### 4. FIRST AID MEASURES

**EYES:** Irrigation of the eye immediately with water for fifteen minutes is a good safety practice.

**SKIN:** Contact will probably cause no more than irritation. Wash off in flowing water or shower. Wash clothing before reuse.

**INGESTION:** Low in toxicity. No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

**INHALATION:** Remove to fresh air if effect occurs. Consult medical personnel.

**NOTE TO PHYSICIAN:** No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

### 5. FIRE-FIGHTING MEASURES

**FLASH POINT:** 245°F

**METHOD USED:** PMCC

**FLAMMABLE LIMITS**

**LFL:** Not applicable

**UFL:** Not applicable

**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub>, dry chemical

**FIRE AND EXPLOSION HAZARDS:** None.

**FIRE-FIGHTING EQUIPMENT:** Wear positive pressure SCBA.

### 6. ACCIDENTAL RELEASE MEASURES

**ACTION TO TAKE FOR SPILLS/LEAKS:** Large spill -- dike up and pump into appropriate containers. Small spill -- use noncombustible absorbent material/sand and shovel into suitable containers.

**DISPOSAL METHOD:** Large quantities should be recovered. Collect small quantities in waste metal drums and seal for removal to an approved landfill, or incinerate in accordance with local, state, and federal regulations.

### 7. HANDLING AND STORAGE

**SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Practice good caution and personnel cleanliness to avoid skin and eye contact. Avoid breathing vapors of heated material.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**VENTILATION:** Good room ventilation usually adequate for most operations.

**RESPIRATORY PROTECTION:** None normally needed.

**SKIN PROTECTION:** For brief contact, no precautions other than clean body-covering clothing should be needed. Use impervious gloves when prolonged or frequently repeated contact could occur.

**EYE PROTECTION:** Use chemical goggles.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT:** Not applicable

**VAP PRESS:** Not applicable

**VAP DENSITY:** Not applicable

**SOL. IN WATER:** None

**SP. GRAVITY:** 1.12-1.14

**APPEARANCE:** Clear viscous liquid.

**ODOR:** Faint ether odor

## 10. STABILITY AND REACTIVITY

**STABILITY: (CONDITIONS TO AVOID)** Excess heating over long periods of time degrades the resin.

**INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID)** Base.

**HAZARDOUS DECOMPOSITION PRODUCTS:** The by-products expected in incomplete pyrolysis or combustion of this material are mainly phenolics, carbon monoxide and water. The thermal decomposition products therefore should be treated as potentially hazardous substances, and appropriate precautions should be taken.

**HAZARDOUS POLYMERIZATION:** Will not occur by itself but masses more than 1 pound of product plus aliphatic amine will cause irreversible polymerization with considerable heat buildup.

## 11. TOXICOLOGICAL INFORMATION

No Data Available

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** No Data Available

**Environmental Fate:** No Data Available

**Bioaccumulation:** No Data Available

**Biodegradation:** No Date Available

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Large quantities should be recovered. Collect small quantities in waste metal drums and seal for removal to an approved landfill, or incinerate in accordance with local, state, and federal regulations.

## 14. TRANSPORT INFORMATION

Transportation Emergency Number: CHEMTEL 1-800-255-3924.

D.O.T. Shipping Name: Not Regulated By D.O.T.

## 15. REGULATORY INFORMATION

### STATUS ON SUBSTANCE LISTS:

The concentrations shown in this document are maximum or ceiling levels (expressed in weight



%, unless otherwise specified) to be used for regulations. Trade Secrets are indicated by "TS".

**SUPERFUND AMENDMENTS and REAUTHORIZATION ACT of 1986 (SARA) TITLE III:**

**Sections 301-304** require emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355. Components present in this product at a level which could require reporting under this statute are:

Chemical Name	CAS Number	% By Weight
<b>NONE</b>		

**Sections 311-312** require products be reviewed and applicable EPA Hazard Definitions be identified and made known.

**EPA HAZARD CLASSIFICATIONS:**

Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard
<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

**Section 313** requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). This information must be included in all MSDSs that are copied and distributed for this material. Components present in this product at level which could require reporting under the statute are:

Chemical Name	CAS Number	% By Weight
<b>NONE</b>		

If you are unsure if you must report more information, call the EPA Emergency Planning and Right-To-Know Hot Line: 800-535-0202 or 202-479-2449.

**TOXIC SUBSTANCES CONTROL ACT (TSCA):**

The components of this product are contained on the chemical substance inventory list.

**16. OTHER INFORMATION**

**Date Revised: 05/06/2015**

**MANUFACTURER'S NAME AND ADDRESS:**

**Petra Polymers  
1610 E. Miraloma Ave.  
Placentia, CA 92870  
Telephone: 714-572-6723**

The information herein is given in good faith, but no warranty expressed or implied is made. Petra Polymers urges users of this product to evaluate its suitability and compliance with local regulations as Petra Polymers cannot foresee the nature of the final application or final location of usage.