

Material Safety Data Sheet



Date Issued: 03/01/2009
Date Revised: 08/19/2012

PETRA-CRETE U – PART A

1. PRODUCT AND COMPANY IDENTIFICATION

| 24 HOUR EMERGENCY ASSISTANCE | | GENERAL MSDS ASSISTANCE | |
|------------------------------|---|---|--|
| CHEM-TEL 1-800-255-3924 | | Petra Polymers (888) 497-3872 | |
| HEALTH HAZARD | 1 | 1610 E. Miraloma Ave. Placentia, CA 92870 NFPA HAZARD RATING: 4= EXTREME 2= MODERATE 0= INSIGNIFICANT 3= HIGH 1= SLIGHT | |
| FIRE | 0 | | |
| REACTIVITY | 0 | | |
| SPECIAL | - | | |

PRODUCT NAME: **PETRA-CRETE U – PART A**
TYPE OF USE: Chemical intermediate for polyurethane

2. HAZARD IDENTIFICATION

PHYSICAL APPEARANCE: Milky white or colored liquid with faint castor oil odor.

Routes of Exposure: Eye contact, Inhalation, Skin contact, Ingestion.

EYE: Irritating to eyes.

SKIN CONTACT: May cause skin sensitization.

INGESTION: Unlikely to be harmful if swallowed.

INHALATION: Very mild respiratory tract irritant, May cause respiratory sensitization.

3. COMPOSITION/OCCUPATIONAL EXPOSURE LIMITS

| | | |
|------------------------|-----------------|--------|
| Castor Oil | (CAS 8001-79-4) | < 50 % |
| Water | (CAS 7732-18-5) | <30 % |
| Butyl Benzyl Phthalate | (CAS 85-68-7) | <18 % |
| Aliphatic Diluent | T/S | < 5 % |
| Surfactant | T/S | < 4 % |

4. FIRST AID MEASURES

PROLONGED OBSERVATION MAY BE INDICATED.

EYES: For eye contact, flush eyes for at least 20-30 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Flush for an additional 20-30 minutes. Seek medical attention if discomfort persists.

SKIN: For skin contact, under a safety shower, remove contaminated clothing and shoes. Wash affected areas thoroughly with large amounts of water, and soap if available, for at least 15 minutes. Get medical attention. Decontaminate clothing and shoes before re-use.

INGESTION: Ingestion unlikely. However, if ingested. Administer 3 – 4 glasses of milk or water. Do not induce vomiting. Seek medical advice.

INHALATION: If inhaled, remove from area to fresh air. If not breathing, give artificial respiration. Get medical attention. Prevent aspiration of vomit. Turn victim's head to the side. If breathing is difficult,

transport to medical care and, if available, give supplemental oxygen.

5. FIRE-FIGHTING MEASURES

FLASH POINT: >400° F **METHOD USED:** PMCC

FLAMMABLE LIMITS

LFL: No Data Available

UFL: No Data Available

AUTOIGNITION TEMPERATURE: 500° F

EXTINGUISHING MEDIA: Water, fog, alcohol foam, CO₂, dry chemical.

FIRE & EXPLOSION HAZARDS: Use full protective clothing (see section 9).

FIRE FIGHTING EQUIPMENT: Use a positive pressure, self-contained breathing apparatus. Wear butyl rubber boots, gloves and body suit.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: (Removal of ignition sources, diking, etc). Stop the leak, if possible. Ventilate the space involved. Reduce vapor spreading with a water spray. Shut off or remove all ignition sources. Construct a dike to prevent spreading (includes molten liquids until they freeze). Protect workers with water spray.

CLEAN-UP PROCEDURES: If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in an appropriate chemical waste container. Transfer to containers by suction, preparatory for later disposal. Place in metal containers for recovery or disposal. Flush area with water spray. Clean-up personnel must be equipped with self-contained breathing apparatus and butyl rubber protective clothing. For large spills, recover spilled material with a vacuum truck.

DISPOSAL METHOD: Comply with all Federal, State and local regulations.

7. HANDLING AND STORAGE

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Ground all transfer equipment. Hold bulk storage under a nitrogen blanket. This product should not come in contact with copper or copper-bearing alloys. Good general housekeeping procedure should be followed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Good general mechanical ventilation is recommended.

RESPIRATORY PROTECTION: Use only supplied air respirator, recommended or approved by appropriate local, state or international agency, operated in a positive pressure mode.

SKIN PROTECTION: Use chemical resistant gloves appropriate to conditions of use. Impervious protective suit with integral or tight-fitting gloves, boots, and full head and face protection must be worn. Compatible materials for response to this product are neoprene, Viton™, Saranex and butyl rubber. The equipment must be cleaned thoroughly after each use.

EYE PROTECTION: Eye protection, including both chemical splash goggles and face shield must be worn when possibility exists for eye contact due to splashing/spraying liquid, airborne particles, or vapor. Both chemical splash goggles and face shield must be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 215 ° F

VAP PRESSURE: <0.01mm Hg at 20°C (68°F)

VAP DENSITY: 1.0

SOL. IN WATER: soluble.

SP. GRAVITY: (Water =1) 0.975

APPEARANCE: Milky color liquid

ODOR: Faint Castor Oil

PH: Neutral

10. STABILITY AND REACTIVITY

STABILITY: Can react strongly with epoxy resins at elevated temperatures.

MATERIALS TO AVOID: Epoxides, acids, aldehydes, ketones, acrylates, organic halides, oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

No Data Available

12. ECOLOGICAL INFORMATION

Ecotoxicity: No Data Available

Environmental Fate: No Data Available

Bioaccumulation: No Data Available

Biodegradation: No Data 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 current local, **state, and federal regulations.**

14. TRANSPORT INFORMATION

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

DOT Shipping Name: NOT REGULATED

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".

FEDERAL EPA:

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, and LIABILITY ACT of 1980 (CERCLA): Requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (**RQ's**) in **40 CFR 302.4**. Components present in this product at level which could require reporting under the statute are:

| Chemical Name | CAS Number | RQ |
|---------------|------------|----|
| NONE | | |

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

Section 302 require emergency planning based on **Threshold Planning Quantities (TPQ's)** and release reporting based on **Reportable Quantities (RQ's)** 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 |
|---------------|------------|-------------|
| NONE | | |

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

EPA HAZARD CLASSIFICATIONS:

| | | | | |
|------------------------|--------------------------|----------------------|--------------------------|--------------------------|
| Acute Hazard Yes | Chronic Hazard Yes | Fire Hazard No | Pressure Hazard No | Reactive Hazard No |
|------------------------|--------------------------|----------------------|--------------------------|--------------------------|

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 MSDS's that are copied and distributed for this material. Components present in this product at the level which could require reporting under the statute are:

| Chemical Name | CAS Number | % By Weight |
|---------------|------------|-------------|
| NONE | | |

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.

OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA):

This Material Safety Data Sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200 hazard class(es). Corrosive. Sensitizer. Combustible. Resource Conservation and Recovery Act (RCRA): D 001 Ignitable.

16. OTHER INFORMATION

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 nor final location of usage.

Material Safety Data Sheet



Date Issued: 03/01/2009
Date Revised: 08/21/2012

PETRA-CRETE U – PART B

1. PRODUCT AND COMPANY IDENTIFICATION

| 24 HOUR EMERGENCY ASSISTANCE | | GENERAL MSDS ASSISTANCE | |
|------------------------------|---|--|--|
| CHEM-TEL 1-800-255-3924 | | Petra Polymers (888) 497-3872 | |
| HEALTH HAZARD | 2 | 1610 E. Miraloma Ave. Placentia, CA 92870 NFPA HAZARD RATING: 4= EXTREME 2= MODERATE 0= INSIGNIFICANT 3= HIGH 1= SLIGHT | |
| FIRE | 0 | | |
| REACTIVITY | 2 | | |
| SPECIAL | - | | |

PRODUCT NAME: **PETRA-CRETE U – PART B**
TYPE OF USE: Chemical intermediate for polyurethane

2. HAZARD IDENTIFICATION

PHYSICAL APPEARANCE: Dark brown liquid with faint musky odor.

INHALATION: In a combined chronic inhalation toxicity/oncogenicity study, rats were exposed to an aerosol of polymeric mdi for 6 hours/day, 5 days/week, for one or two years, at exposure concentrations of 0, 0.2, 1.0 and 6.0 mg/m'. Microscopic examination of tissues revealed the effects of irritation to the nasal cavity and lungs in animals exposed to the two highest concentrations. The no observable effect level (noel) was 0.2 mg/m. Pulmonary adenomas and a single pulmonary adenocarcinoma. Were observed in this study, but were considered to be related to mdi. These tumors were observed only in rats exposed at the highest concentration.

SKIN AND EYE: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation frequently. Workplace vapors have produced reversible corneal epithelial edema, impairing vision.

INGESTION: May cause burning inside the mouth accompanied by nausea, vomiting and diarrhea.

HEALTH HAZARDS (ACUTE AND CHRONIC): Repeated skin contact may cause persistent irritation or dermatitis.

MUTAGENICITY: Positive (salmonella microsome test with metabolic activation; cell transformation assay) as well as negative (mouse lymphoma specific locus mutation test with or without metabolic activation) results have been observed in vitro. However, mdi gave negative results in an in vivo (mouse micronucleus) assay.

3. COMPOSITION/OCCUPATIONAL EXPOSURE LIMITS

| | | |
|--|-----------------|-------|
| <i>Polymeric diphenylmethane diisocyanate</i> | (CAS 9016-87-9) | < 50% |
| <i>4,4' - Diphenylmethane diisocyanate (MDI)</i> | (CAS101-68-8) | <45% |

4. FIRST AID MEASURES

PROLONGED OBSERVATION MAY BE INDICATED.

EYES: For eye contact, flush eyes for at least 20-30 minutes with running water. Hold eyelids apart to

ensure rinsing of the entire eye surface and lids with water. Flush for an additional 20-30 minutes. Seek medical attention if discomfort persists.

SKIN: For skin contact, under a safety shower, remove contaminated clothing and shoes. Wash affected areas thoroughly with large amounts of water, and soap if available, for at least 15 minutes. Get medical attention. Decontaminate clothing and shoes before re-use.

INGESTION: Ingestion unlikely. However, if ingested. Administer 3 – 4 glasses of milk or water. Do not induce vomiting. Seek medical advice.

INHALATION: If inhaled, remove from area to fresh air. If not breathing, give artificial respiration. Get medical attention. Prevent aspiration of vomit. Turn victim's head to the side. If breathing is difficult, transport to medical care and, if available, give supplemental oxygen.

5. FIRE-FIGHTING MEASURES

FLASH POINT: >400° F **METHOD USED:** PMCC

FLAMMABLE LIMITS

LFL: No Data Available

UFL: No Data Available

AUTO-IGNITION TEMPERATURE: 500° F

EXTINGUISHING MEDIA: Water, fog, alcohol foam, CO², dry chemical.

FIRE & EXPLOSION HAZARDS: Use full protective clothing (see section 9).

FIRE FIGHTING EQUIPMENT: Use a positive pressure, self-contained breathing apparatus. Wear butyl rubber boots, gloves and body suit.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: (Removal of ignition sources, diking, etc). Stop the leak, if possible. Ventilate the space involved. Reduce vapor spreading with a water spray. Shut off or remove all ignition sources. Construct a dike to prevent spreading (includes molten liquids until they freeze). Protect workers with water spray.

CLEAN-UP PROCEDURES: If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in an appropriate chemical waste container. Transfer to containers by suction, preparatory for later disposal. Place in metal containers for recovery or disposal. Flush area with water spray. Clean-up personnel must be equipped with self-contained breathing apparatus and butyl rubber protective clothing. For large spills, recover spilled material with a vacuum truck.

DISPOSAL METHOD: Comply with all Federal, State and local regulations.

7. HANDLING AND STORAGE

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Ground all transfer equipment. Hold bulk storage under a nitrogen blanket. This product should not come in contact with copper or copper-bearing alloys. Good general housekeeping procedure should be followed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: Good general mechanical ventilation is recommended.

RESPIRATORY PROTECTION: Use only supplied air respirator, recommended or approved by appropriate local, state or international agency, operated in a positive pressure mode.

SKIN PROTECTION: Use chemical resistant gloves appropriate to conditions of use. Impervious protective suit with integral or tight-fitting gloves, boots, and full head and face protection must be worn. Compatible materials for response to this product are neoprene, Viton™, Saranex and butyl rubber. The equipment must be cleaned thoroughly after each use.

EYE PROTECTION: Eye protection, including both chemical splash goggles and face shield must be worn when possibility exists for eye contact due to splashing/spraying liquid, airborne particles, or vapor. Both chemical splash goggles and face shield must be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 215 ° F

VAP PRESSURE: <0.01mm Hg at 20°C (68°F)

VAP DENSITY: 1.0
SOL. IN WATER: soluble.
SP. GRAVITY: (Water =1) 0.975
APPEARANCE: Milky color liquid
ODOR: Faint Castor Oil
PH: Neutral

10. STABILITY AND REACTIVITY

STABILITY: Can react strongly with epoxy resins at elevated temperatures.
MATERIALS TO AVOID: Epoxides, acids, aldehydes, ketones, acrylates, organic halides, oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: None
HAZARDOUS POLYMERIZATION: Will not occur.

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 current local, state, and federal regulations.

14. TRANSPORT INFORMATION

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

DOT Shipping Name: NOT REGULATED

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".

FEDERAL EPA:

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| Chemical Name | CAS Number | RQ |
|---------------|------------|----|
| NONE | | |

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

Section 302 require emergency planning based on **Threshold Planning Quantities (TPQ's)** and release reporting based on **Reportable Quantities (RQ's)** 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 |
|---------------|------------|-------------|
| NONE | | |

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

EPA HAZARD CLASSIFICATIONS:

| | | | | |
|------------|------------|-----------|-----------|-----------|
| Acute | Chronic | Fire | Pressure | Reactive |
| Hazard | Hazard | Hazard | Hazard | Hazard |
| Yes | Yes | No | No | No |

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 MSDS's that are copied and distributed for this material. Components present in this product at the level which could require reporting under the statute are:

| Chemical Name | CAS Number | % By Weight |
|---------------|------------|-------------|
| NONE | | |

NOTE: 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.

OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA):

This Material Safety Data Sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200 hazard class(es). Corrosive. Sensitizer. Combustible. Resource Conservation and Recovery Act (RCRA): D 001 Ignitable.

16. OTHER INFORMATION

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 nor final location of usage.

Material Safety Data Sheet



Date Issued: 03/01/2009
Date Revised: 08/22/2012

PETRA-CRETE U – PART C

1. PRODUCT AND COMPANY IDENTIFICATION

| 24 HOUR EMERGENCY ASSISTANCE | | GENERAL MSDS ASSISTANCE | |
|------------------------------|----------|--|--|
| CHEM-TEL 1-800-255-3924 | | Petra Polymers (888) 497-3872 | |
| HEALTH HAZARD | 2 | 1610 E. Miraloma Ave. Placentia, CA 92870 NFPA HAZARD RATING: 4= EXTREME 2= MODERATE 0= INSIGNIFICANT 3= HIGH 1= SLIGHT | |
| FIRE | 0 | | |
| REACTIVITY | 1 | | |
| SPECIAL | - | | |

PRODUCT NAME: PETRA-CRETE U – PART C
TYPE OF USE: Chemical intermediate for polyurethane Concrete

2. HAZARD IDENTIFICATION

PHYSICAL APPEARANCE: Fine white powder.

EYE: Minor transient irritation. Possible caustic burning can occur.

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.

INGESTION: Low acute oral toxicity; LD₅₀ (rat) greater than 4000 mg/kg. No hazards anticipated from ingestion incidental to industrial exposure.

INHALATION: Vapors are unlikely due to physical properties. Over exposure may produce irritation of the mucous membranes, nose, throat, coughing and shortness of breath. Use NIOSH- approved air purifying or supplied-air respirator where airborne concentrations of crystalline silica (quartz) are expected to exceed exposure limits.

| Chemical | Percentage (by wt.) | Exposure Guidelines | | | | | | UNIT |
|-----------------------------|---------------------|-----------------------------------|------|-------------------|------|-------|------|-------------------|
| | | OSHA | | NIOSH | | ACGIH | | |
| | | TWA | STEL | TWA | STEL | TWA | STEL | |
| Crystalline Silica (Quartz) | < 85 % | 10 mg/m ³ ^a | N.E. | 0.05 ^a | N.E. | 0.025 | N.E. | Mg/m ³ |
| | | %SiO ₃ +2 | | | | | | |

**N.E. = Not Established, a = respirable dust

SYSTEMIC AND OTHER EFFECTS: Except for skin sensitization, repeated exposure to the product is not anticipated to pose an acute or significant health hazard. Calcium oxide is caustic to living tissue. Over exposure may cause irritation of the eyes, skin and upper respiratory tract.

3. COMPOSITION/OCCUPATIONAL EXPOSURE LIMITS

| | | |
|------------------------------------|------------------|--------|
| <i>Crystalline Silica (Quartz)</i> | (CAS 14808-60-7) | < 85 % |
| <i>White Portland Cement</i> | (CAS 65997-15-1) | <20 % |
| <i>Hydrated Lime</i> | (CAS 305-52-0) | < 5 % |
| <i>Gypsum</i> | (CAS 13397-24-5) | <2 % |

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: Give 1 –2 large glasses of water or milk. Immediately seek medical aid.
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: 1076°F
METHOD USED: PMCC
FLAMMABLE LIMITS
LFL: Not applicable
UFL: Not applicable
EXTINGUISHING MEDIA: Will not ignite
FIRE AND EXPLOSION HAZARDS: None.
FIRE-FIGHTING EQUIPMENT: Wear positive pressure SCBA.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: Collect in suitable containers. Residual may be removed using steam or hot soapy water.
DISPOSAL METHOD: Bury in an approved landfill; 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 dust. Store in a cool dry place. Avoid exposure to moisture as material may solidify.

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: 2.70- 2.80
APPEARANCE: Fine White powder.
ODOR: No Odor

10. STABILITY AND REACTIVITY

STABILITY: (CONDITIONS TO AVOID) Stable
INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Acid
HAZARDOUS DECOMPOSITION PRODUCTS: None
HAZARDOUS POLYMERIZATION: Will not occur.

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 current local, state, and federal regulations.

14. TRANSPORT INFORMATION

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

DOT Shipping Name: NOT REGULATED

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".

FEDERAL EPA:

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, and LIABILITY ACT of 1980 (CERCLA): Requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4. Components present in this product at level which could require reporting under the statute are:

| Chemical Name | CAS Number | % By Weight | RQ |
|---------------|------------|-------------|----|
| NONE | | | |

OSUPERFUND 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 |
|---------------|------------|-------------|
| NONE | | |

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

EPA HAZARD CLASSIFICATIONS:

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| Acute | Chronic | Fire | Pressure | Reactive |
| Hazard | Hazard | Hazard | Hazard | Hazard |
| No | No | No | No | No |

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 |
|---------------|------------|-------------|
| NONE | | |

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

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 nor final location of usage.