

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 31.10.2012

Revision: 31.10.2012

1 Identification of the substance/mixture and of the company/undertaking

- . **1.1 Product identifier**
- . **Trade name: Poly-Krete PT Part B**
- . **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- . **Application of the substance / the preparation** Epoxy curing agent
- . **1.3 Details of the supplier of the Safety Data Sheet**
- . **Manufacturer/Supplier:**
InterAmerican Resins Corp.
PO Box 4156,
Vega Baja, PR 00693
Tel (706) 279-4114
- . **Further information obtainable from:** Product Safety Department
- . **1.4 Emergency telephone number:**
ChemTel Inc.
(800)255-3924, +1 (813)248-0585

2 Hazards identification

- . **2.1 Classification of the substance or mixture**
- . **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Repr. 2; H361f: Suspected of damaging fertility.



GHS05 corrosion

Skin Corr. 1B; H314: Causes severe skin burns and eye damage.



GHS07

Acute Tox. 4; H302: Harmful if swallowed.

Skin Sens. 1; H317: May cause an allergic skin reaction.

- . **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



C; Corrosive

R34: Causes burns.



Xn; Harmful

R21/22-62: Harmful in contact with skin and if swallowed. Possible risk of impaired fertility.



Xi; Sensitising

R43: May cause sensitisation by skin contact.

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- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS05 GHS07 GHS08

- **Signal word:** Danger

- **Hazard-determining components of labelling:**

2,2'-iminodiethylamine

bisphenol A

Phenol, 5,5'-(1-methylethylidene)bis-polymer with N1-(2-aminoethyl)-1,2-ethanediamine and 2-(chloromethyl)oxirane

2-piperazin-1-ylethylamine

- **Hazard statements**

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H361f: Suspected of damaging fertility.

- **Precautionary statements**

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P281: Use personal protective equipment as required.

P264: Wash thoroughly after handling.

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

P272: Contaminated work clothing should not be allowed out of the workplace.

P201: Obtain special instructions before use.

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

P303+P361+P353: IF ON SKIN (or hair): Remove/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.

P310: Immediately call a POISON CENTER or doctor/physician.

P321: Specific treatment (see on this label).

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

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P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P363: Wash contaminated clothing before reuse.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P330: Rinse mouth.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P405: Store locked up.

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

• **Hazard description:**

• **WHMIS-symbols:**

D2A - Very toxic material causing other toxic effects

E - Corrosive material



• **NFPA ratings (scale 0 - 4)**



Health = 3

Fire = 0

Reactivity = 0

• **HMIS-ratings (scale 0 - 4)**



Health = *3

Fire = 0

Reactivity = 0

* - Indicates a long term health hazard from repeated or prolonged exposures.

• **HMIS Long Term Health Hazard Substances**

| | |
|---------|-------------|
| 80-05-7 | bisphenol A |
|---------|-------------|

• **2.3 Other hazards**

• **Results of PBT and vPvB assessment**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

3 Composition/information on ingredients

• **3.2 Mixtures**

• **Description:** Mixture of substances listed below with nonhazardous additions.

• **Dangerous components:**

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| | | (Contd. of page 3) |
|--|--|--------------------|
| CAS: 111-40-0 EINECS: 203-865-4 Index number: 612-058-00-X | 2,2'-iminodiethylamine ☠ C R34; ☠ Xn R21/22; ☠ Xi R43 ⚠ Skin Corr. 1B, H314 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317 | 25-50% |
| CAS: 80-05-7 EINECS: 201-245-8 Index number: 604-030-00-0 | bisphenol A ☠ Xn R62; ☠ Xi R37-41; ☠ Xi R43 R52 Repr. Cat. 3 ⚠ Repr. 2, H361f ⚠ Eye Dam. 1, H318 ⚠ Skin Sens. 1, H317; STOT SE 3, H335 | 10-25% |
| CAS: 31326-29-1 NLP: 500-072-8 | Phenol, 5,5'-(1-methylethylidene)bis-,polymer with N1-(2-aminoethyl)-1,2-ethanediamine and 2-(chloromethyl)oxirane ☠ Xn R22; ☠ Xi R36/38; ☠ Xi R43 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 | 10-25% |
| CAS: 140-31-8 EINECS: 205-411-0 Index number: 612-105-00-4 | 2-piperazin-1-ylethylamine ☠ C R34; ☠ Xn R21/22; ☠ Xi R43 R52/53 ⚠ Skin Corr. 1B, H314 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317 Aquatic Chronic 3, H412 | < 10% |
| CAS: 107-41-5 EINECS: 203-489-0 Index number: 603-053-00-3 | 2-methylpentane-2,4-diol ☠ Xi R36/38 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319 | < 10% |

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Do not pull solidified product off the skin.

If skin irritation continues, consult a doctor.

After eye contact:

Protect unharmed eye.

Rinse opened eye for several minutes under running water.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

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- . **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
- . **4.2 Most important symptoms and effects, both acute and delayed**
Gastric or intestinal disorders
Coughing
Breathing difficulty
Dizziness
- . **Hazards**
Danger of gastric perforation.
Danger of impaired breathing.
Condition may deteriorate with alcohol consumption.
- . **4.3 Indication of any immediate medical attention and special treatment needed**
If swallowed, gastric irrigation with added, activated carbon.
Monitor circulation, possible shock treatment.
If necessary oxygen respiration treatment.
Medical supervision for at least 48 hours.

5 Firefighting measures

- . **5.1 Extinguishing media**
- . **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- . **For safety reasons unsuitable extinguishing agents:** None.
- . **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- . **5.3 Advice for firefighters**
- . **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- . **Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures**
Use respiratory protective device against the effects of fumes/dust/aerosol.
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Particular danger of slipping on leaked/spilled product.
- . **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- . **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Clean the affected area carefully; suitable cleaners are:
Weak acid solution
Warm water
Ensure adequate ventilation.

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6.4 Reference to other sections

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling

- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.

- **Information about fire - and explosion protection:** No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

• Storage:

• Requirements to be met by storerooms and receptacles:

- Store in a cool location.
- Store only in the original receptacle.
- Avoid storage near extreme heat, ignition sources or open flame.

• Information about storage in one common storage facility:

- Do not store together with oxidizing and acidic materials.
- Store away from foodstuffs.

- **Further information about storage conditions:** Keep container tightly sealed.

- **7.3 Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

8.1 Control parameters

• Ingredients with limit values that require monitoring at the workplace:

111-40-0 2,2'-iminodiethylamine

REL (USA) 4 mg/m³, 1 ppm
Skin

TLV (USA) 4,2 mg/m³, 1 ppm
Skin

EL (Canada) 1 ppm
Skin; S

EV (Canada) 4 mg/m³, 1 ppm
Skin

107-41-5 2-methylpentane-2,4-diol

REL (USA) Short-term value: C 125 mg/m³, C 25 ppm

TLV (USA) Short-term value: C 121 mg/m³, C 25 ppm

EL (Canada) Short-term value: C 25 ppm

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.

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- **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

- **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.
Use suitable respiratory protective device when aerosol or mist is formed.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

Contact lenses should not be worn.



Safety glasses

Goggles recommended during refilling

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment**

No further relevant information available.

- **Risk management measures**

See Section 7 for additional information.

No further relevant information available.

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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

| | |
|------------------|-----------------|
| Form: | Liquid |
| Colour: | Clear |
| Odour: | Amine-like |
| Odour threshold: | Not determined. |

pH-value at 20 °C: >10

Change in condition

| | |
|------------------------------|---------------|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | Undetermined. |

Flash point: Not applicable.

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 260 °C (500 °F)

Decomposition temperature: Not determined.

Self-igniting: Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

| | |
|--------|------------|
| Lower: | 1,0 Vol % |
| Upper: | 10,0 Vol % |

Vapour pressure at 20 °C: 0,5 hPa

| | |
|------------------|-----------------|
| Density: | Not determined. |
| Relative density | Not determined. |
| Vapour density | Not determined. |
| Evaporation rate | Not determined. |

Solubility in / Miscibility with water: Fully miscible.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

| | |
|------------|-----------------|
| Dynamic: | Not determined. |
| Kinematic: | Not determined. |

9.2 Other information: No further relevant information available.

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10 Stability and reactivity

- . **10.1 Reactivity**
- . **10.2 Chemical stability**
- . **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- . **10.3 Possibility of hazardous reactions**
Reacts with strong acids and oxidizing agents.
Reacts with peroxides and other radical forming substances.
Reacts with catalysts.
- . **10.4 Conditions to avoid** Store away from oxidizing agents.
- . **10.5 Incompatible materials:** No further relevant information available.
- . **10.6 Hazardous decomposition products:**
Ammonia
Nitrogen oxides
Carbon monoxide and carbon dioxide

11 Toxicological information

- . **11.1 Information on toxicological effects**
- . **Acute toxicity:**

- . **LD/LC50 values relevant for classification:**

111-40-0 2,2'-iminodiethylamine

Oral LD50 1080 mg/kg (rat)
Dermal LD50 1090 mg/kg (rabbit)

80-05-7 bisphenol A

Oral LD50 3250 mg/kg (rat)
Dermal LD50 3000 mg/kg (rabbit)

140-31-8 2-piperazin-1-ylethylamine

Oral LD50 2140 mg/kg (rat)
Dermal LD50 880 mg/kg (rabbit)

- . **Primary irritant effect:**
- . **on the skin:** Caustic effect on skin and mucous membranes.
- . **on the eye:** Strong caustic effect.
- . **Sensitization:**
Sensitization possible through skin contact.
Sensitizing effect through inhalation is possible by prolonged exposure.
- . **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful
Corrosive
Irritant

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Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- **Acute effects (acute toxicity, irritation and corrosivity)** Danger through skin adsorption.
- **Sensitisation** Sensitization possible by inhalation and/or dermal contact.
- **Repeated dose toxicity** Repeated exposures may result in skin and/or respiratory sensitivity.

12 Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** Moderately /partly biodegradable
- **12.3 Bioaccumulative potential** Does not accumulate in organisms
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** After neutralization a reduction of the harming action may be recognized
- **Additional ecological information:**
- **General notes:**

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

- **13.1 Waste treatment methods**
 - **Recommendation**
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
Can be disposed of with household garbage with prior chemical-physical or biological treatment following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
- **Uncleaned packaging:**
 - **Recommendation:** Disposal must be made according to official regulations.
 - **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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14 Transport information

| | |
|---|--|
| <ul style="list-style-type: none"> . 14.1 UN-Number . DOT, ADR, IMDG, IATA | UN2735 |
| <ul style="list-style-type: none"> . 14.2 UN proper shipping name . DOT, IMDG, IATA . ADR | Amines, Liquid, Corrosive, N.O.S. (Diethylenetriamine, N - Aminoethylpiperazine) 2735 Amines, Liquid, Corrosive, N.O.S. (Diethylenetriamine, N - Aminoethylpiperazine) |
| <ul style="list-style-type: none"> . 14.3 Transport hazard class(es) . DOT | |
|  <ul style="list-style-type: none"> . Class . Label | 8 Corrosive substances. 8 |
| <ul style="list-style-type: none"> . ADR | |
|  <ul style="list-style-type: none"> . Class . Label | 8 (C7) Corrosive substances. 8 |
| <ul style="list-style-type: none"> . IMDG, IATA | |
|  <ul style="list-style-type: none"> . Class . Label | 8 Corrosive substances. 8 |
| <ul style="list-style-type: none"> . 14.4 Packing group . DOT, ADR, IMDG, IATA | II |
| <ul style="list-style-type: none"> . 14.5 Environmental hazards: . Marine pollutant: | No |
| <ul style="list-style-type: none"> . 14.6 Special precautions for user . Danger code (Kemler): . EMS Number: . Segregation groups | Warning: Corrosive substances. 80 F-A,S-B Alkalis |
| <ul style="list-style-type: none"> . 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

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| | |
|--|----|
| . Transport/Additional information: | |
| . ADR | |
| . Limited quantities (LQ) | 1L |
| . Transport category | 2 |
| . Tunnel restriction code | E |
| . UN "Model Regulation": | |
| UN2735, Amines, Liquid, Corrosive, N.O.S. (Diethylenetriamine, N - Aminoethylpiperazine), 8, II | |

15 Regulatory information

- . 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- . United States (USA)
- . SARA

| |
|---|
| . Section 355 (extremely hazardous substances): |
| None of the ingredients is listed. |
| . Section 313 (Specific toxic chemical listings): |
| 80-05-7 bisphenol A |
| . TSCA (Toxic Substances Control Act): |
| All ingredients are listed. |
| . Proposition 65 (California): |
| . Chemicals known to cause cancer: |
| None of the ingredients is listed. |
| . Chemicals known to cause reproductive toxicity for females: |
| None of the ingredients is listed. |
| . Chemicals known to cause reproductive toxicity for males: |
| None of the ingredients is listed. |
| . Chemicals known to cause developmental toxicity: |
| None of the ingredients is listed. |
| . Carcinogenic Categories |
| . EPA (Environmental Protection Agency) |
| None of the ingredients is listed. |
| . IARC (International Agency for Research on Cancer) |
| None of the ingredients is listed. |
| . TLV (Threshold Limit Value established by ACGIH) |
| None of the ingredients is listed. |
| . NIOSH-Ca (National Institute for Occupational Safety and Health) |
| None of the ingredients is listed. |

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. OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

. Canada

. Canadian Domestic Substances List (DSL)

All ingredients are listed.

. Canadian Ingredient Disclosure list (limit 0.1%)

111-40-0 | 2,2'-iminodiethylamine

. Canadian Ingredient Disclosure list (limit 1%)

Ingredients are listed as required.

80-05-7 | bisphenol A

107-41-5 | 2-methylpentane-2,4-diol

140-31-8 | 2-piperazin-1-ylethylamine

. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

. Relevant phrases

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H361f: Suspected of damaging fertility.

H412: Harmful to aquatic life with long lasting effects.

R21/22: Harmful in contact with skin and if swallowed.

R22: Harmful if swallowed.

R34: Causes burns.

R36/38 Irritating to eyes and skin.

R37: Irritating to respiratory system.

R41: Risk of serious damage to eyes.

R43: May cause sensitisation by skin contact.

R52: Harmful to aquatic organisms.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R62: Possible risk of impaired fertility.

. Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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GHS: Globally Harmonized System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent