

# Safety Data Sheet

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

Printing date: 02.11.2012

Revision: 02.11.2012

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

- **1.1 Product identifier**
- **Trade name:** Eco-Krete 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:** Isocyanate resin
- **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

Resp. Sens. 1; H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
STOT RE 2; H373: May cause damage to organs through prolonged or repeated exposure.



GHS07

Acute Tox. 4; H332: Harmful if inhaled.  
Skin Irrit. 2; H315: Causes skin irritation.  
Eye Irrit. 2; H319: Causes serious eye irritation.  
Skin Sens. 1; H317: May cause an allergic skin reaction.  
STOT SE 3; H335: May cause respiratory irritation.

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



Xn; Harmful

R20: Harmful by inhalation.



Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.



Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

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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**



GHS07 GHS08

- **Signal word** Danger

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

diphenylmethanediisocyanate, isomers and homologues

4,4'-methylenediphenyl diisocyanate

methylenediphenyl diisocyanate

- **Hazard statements**

H332: Harmful if inhaled.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317: May cause an allergic reaction.

H335: May cause respiratory irritation.

H373: May cause damage to organs through prolonged or repeated exposure.

Contains isocyanates. May produce an allergic reaction.

- **Precautionary statements**

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

P285: In case of inadequate ventilation wear respiratory protection.

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

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

P264: Wash thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321: Specific treatment (see on this label).

P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P362: Take off contaminated clothing and wash before reuse.

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

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

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P363: Wash contaminated clothing before reuse.

P304+P341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P332+P313: If skin irritation occurs: Get medical advice/attention.

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

P337+P313: If eye irritation persists: Get medical advice/attention. P314: Get medical advice/attention if you feel unwell.

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

P405: Store locked up.

P403+P23: Store in a well-ventilated place. Keep container tightly closed.

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

**• Hazard description:****• WHMIS-symbols:**

D1B - Toxic material causing immediate and serious toxic effects

D2A - Very toxic material causing other toxic effects

**• NFPA ratings (scale 0 - 4)****• HMIS-ratings (scale 0 - 4)**

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

**• HMIS Long Term Health Hazard Substances**

101-68-8 4,4'-methylenediphenyl diisocyanate

26447-40-5 methylenediphenyl diisocyanate

**• 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.

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**• Dangerous components:**

CAS: 9016-87-9	diphenylmethanediisocyanate, isomers and homologues ☒ Xn R20; ☒ Xn R42/43; ☒ Xi R36/37/38 Carc. Cat. 3 ⚠ Resp. Sens. 1, H334; STOT RE 2, H373 ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	> 50%
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9	4,4'-methylenediphenyl diisocyanate ☒ Xn R20; ☒ Xn R42/43; ☒ Xi R36/37/38 Carc. Cat. 3 ⚠ Resp. Sens. 1, H334; STOT RE 2, H373 ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	10-25%
CAS: 26447-40-5 EINECS: 247-714-0 Index number: 615-005-00-9	methylenediphenyl diisocyanate ☒ Xn R20; ☒ Xn R42/43; ☒ Xi R36/37/38 Carc. Cat. 3 ⚠ Resp. Sens. 1, H334; STOT RE 2, H373 ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	< 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.

Provide oxygen treatment if affected person has difficulty breathing.

Seek immediate medical advice.

Take affected persons out into the fresh air. Do not leave affected persons unattended.

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

**• After inhalation:**

Do not use mouth to mouth or mouth to nose resuscitation.

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.

Immediately remove any clothing soiled by the product. Do not pull solidified product off the skin. Seek immediate medical advice.

**• After eye contact:**

Protect unharmed eye.

Rinse opened eye for several minutes under running water.

Remove contact lenses if worn, if possible.

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

Seek immediate medical advice.

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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**  
Dizziness  
Coughing  
Breathing difficulty  
Nausea  
Cyanosis  
Unconsciousness
- **Hazards**  
Danger of impaired breathing.  
Danger of pulmonary oedema.  
Danger of convulsion.  
Danger of disturbed cardiac rhythm.  
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.  
Medical supervision for at least 48 hours. If necessary oxygen respiration treatment.  
Later observation for pneumonia and pulmonary oedema.  
If blue colouring appears (lips, ear-lobes, finger-nails), give oxygen treatment as quickly as possible.  
Treat skin and mucous membrane with antihistamine and corticoid preparations.

## 5 Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Hydrogen cyanide (HCN)  
Carbon monoxide (CO) Nitrogen  
oxides (NOx)  
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
Wear self-contained respiratory protective device. Wear fully protective suit.
- **Additional information**  
Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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## 6 Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

Protect from heat.

- **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 alkaline solution

Ensure adequate ventilation.

- **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**

Keep receptacles tightly sealed. Take note of emission threshold.

Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.

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

- **Information about fire - and explosion protection:** Keep respiratory protective device available.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Provide ventilation for receptacles.

- **Information about storage in one common storage facility:**

Store away from oxidizing agents.

Do not store together with acids. Store away from foodstuffs.

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Protect from humidity and water. Keep container tightly sealed.

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

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

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

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Fresh air mask

Wear positive pressure NIOSH or European EN149 vapor respirators when deploying product in large quantities.

- **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 cannot 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.

- **For the permanent contact gloves made of the following materials are suitable:**

Neoprene gloves

Natural rubber, NR

- **As protection from splashes gloves made of the following materials are suitable:** PVC or PE gloves

- **Eye protection:**

Contact lenses should not be worn.



Safety glasses

Face protection

- **Body protection:** Protective work clothing

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

No further relevant information available.

- **Risk management measures**

Organizational measures should be in place for all activities involving this product.

See Section 7 for additional information.

## 9 Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form:

Liquid

Colour:

Dark brown

- **Odour:**

Aromatic

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• <b>Odour threshold:</b>	Not determined.
• <b>pH-value:</b>	Not determined.
• <b>Change in condition</b> <b>Melting point/Melting range:</b> <b>Boiling point/Boiling range:</b>	Undetermined. 300 °C (572 °F)
• <b>Flash point:</b>	> 250 °C (> 482 °F)
• <b>Flammability (solid, gaseous):</b>	Not applicable.
• <b>Ignition temperature:</b>	400 °C (752 °F)
• <b>Decomposition temperature:</b>	Not determined.
• <b>Self-igniting:</b>	Product is not self-igniting.
• <b>Danger of explosion:</b>	Product does not present an explosion hazard.
• <b>Explosion limits:</b> <b>Lower:</b> <b>Upper:</b>	0,4 Vol % Not determined.
• <b>Vapour pressure:</b>	Not determined.
• <b>Density at 20 °C:</b> • <b>Relative density</b> • <b>Vapour density</b> • <b>Evaporation rate</b>	1,24 g/cm <sup>3</sup> Not determined. Not determined. Not determined.
• <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
• <b>Partition coefficient (n-octanol/water):</b>	Not determined.
• <b>Viscosity:</b> <b>Dynamic:</b> <b>Kinematic:</b> • <b>9.2 Other information</b>	Not determined. Not determined. No further relevant information available.

## 10 Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Avoid temperatures above 120 °F / 49 °C.
- **10.3 Possibility of hazardous reactions**  
 Temperatures above 120 °F / 49 °C may result in hazardous reactions.  
 Reacts with alcohols, amines, aqueous acids and alkalis.  
 Corrodes copper and brass. Reacts with catalysts. Reacts with water.  
 Reacts with humid air.

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- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Contact with acids liberates toxic gases.
- **10.6 Hazardous decomposition products:**
  - Carbon monoxide and carbon dioxide
  - Nitrogen oxides
  - Hydrogen cyanide (prussic acid)
  - Poisonous gases/vapours
  - Irritant gases/vapours

## 11 Toxicological information

- **11.1 Information on toxicological effects**

- **Acute toxicity:**

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

**101-68-8 4,4'-methylenediphenyl diisocyanate**

Oral LD50 2200 mg/kg (mouse)

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:**

Sensitization possible through inhalation.

Sensitization possible through skin contact.

- **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

Irritant

Danger through skin adsorption.

Toxic and/or corrosive effects may be delayed up to 24 hours.

- **Sensitisation** Sensitization possible by inhalation and/or dermal contact.

- **Repeated dose toxicity**

May cause damage to organs through prolonged or repeated exposure .

Repeated exposures may result in skin and/or respiratory sensitivity.

## 12 Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:** The product contains materials that are harmful to the environment.

- **12.2 Persistence and degradability** Not easily biodegradable

- **12.3 Bioaccumulative potential**

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected. •

- **12.4 Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

This statement was deduced from the properties of the single components.

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The product contains materials that are harmful to the environment.  
Due to the consistence and the low watersolubility of the product a bioavailability is not probable.  
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment cannot be excluded.  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **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**  
Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations. After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.  
Damaged materials pose a danger to anyone in the immediate area; consult experts for disposal of damaged products.  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:**  
Packagings that may not be cleansed are to be disposed of in the same manner as the product.
- **Recommended cleansing agents:** Diluted caustic solution.

## 14 Transport information

- |  |     |
|--|-----|
| <ul style="list-style-type: none"> <li>• <b>14.1 UN-Number</b></li> <li>• <b>DOT, ADR, ADN, IMDG, IATA</b></li> </ul>  | N/A |
| <ul style="list-style-type: none"> <li>• <b>14.2 UN proper shipping name</b></li> <li>• <b>DOT, ADR, ADN, IMDG, IATA</b></li> </ul>                            | N/A |
| <ul style="list-style-type: none"> <li>• <b>14.3 Transport hazard class(es)</b></li> <li>• <b>DOT, ADR, ADN, IMDG, IATA</b></li> <li>• <b>Class</b></li> </ul> | N/A |
| <ul style="list-style-type: none"> <li>• <b>14.4 Packing group</b></li> <li>• <b>DOT, ADR, IMDG, IATA</b></li> </ul>   | N/A |
| <ul style="list-style-type: none"> <li>• <b>14.5 Environmental hazards:</b></li> <li>• <b>Marine pollutant:</b></li> </ul>                                     | No  |

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<b>• 14.6 Special precautions for user</b>	Not applicable.
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<b>• 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
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<b>• UN "Model Regulation":</b>	-
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## 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):**

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

101-68-8 4,4'-methylenediphenyl diisocyanate

26447-40-5 methylenediphenyl diisocyanate

- **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)**

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

CBD

101-68-8 4,4'-methylenediphenyl diisocyanate

CBD

- **IARC (International Agency for Research on Cancer)**

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

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101-68-8 4,4'-methylenediphenyl diisocyanate

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

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- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **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%)**

101-68-8 4,4'-methylenediphenyl diisocyanate

26447-40-5 methylenediphenyl diisocyanate

- **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients is listed.

- **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**

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation. H332:

Harmful if inhaled.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

H373: May cause damage to organs through prolonged or repeated exposure.

R20: Harmful by inhalation.

R36/37/38: Irritating to eyes, respiratory system and skin.

R42/43: May cause sensitisation by inhalation and skin contact.

- **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

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)