

Material Safety Data Sheet

KOSTER KB-PUR 2 IN 1 A-component

Material Name:

*** Section 1 – Chemical Product and Company Identification ***

Product Use: Polyurethane for resin injection

Manufacturer Information

KOSTER America Corp.

Phone: 877-425-1206

2585 Aviator Drive

Virginia Beach, VA 23453

Emergency # INFOTRAC: 800-535-5053

General Comments

NOTE: Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

*** Section 2 – Composition / Information on Ingredients ***

CAS #	Component	Percent
	None	

SECTION 2 NOTES:

Nothing in this product is listed as a carcinogen by OSHA, NTP, IARC, or ACGIH.

*** Section 3 – Hazards Identification ***

Emergency Overview

This product is a Polyurethane polymer, used as half of a two part system. This product is irritating to the eyes and skin. This product may cause sensitization by skin contact. Excessive inhalation of this material causes headache, dizziness, nausea.

Routes of Entry:

Eyes: This product may cause eye irritation and moderate eye injury. Symptoms may include discomfort or pain, excess blinking and tear production with marked redness and swelling of the conjunctiva.

Skin: This product is irritating to the skin. This product may cause an allergic skin reaction in some individuals.

Ingestion: Ingestion of this product may cause nausea, vomiting and diarrhea.

Inhalation: This product is harmful by inhalation. Inhalation of vapors or mists of the product may be irritating to the respiratory system.

HMIS Ratings: Health: 2 Fire: 1 Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 4 – First Aid Measures ***

Eyes: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses. Seek medical attention at once.

Skin: Remove all contaminated clothing. Wash affected area with mild soap and water. If irritation persists, get medical attention. Wash contaminated clothing before reuse.

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Ingestion: If the material is swallowed, have victim drink water to dilute stomach contents, and get immediate medical attention or advice. DO NOT INDUCE VOMITING.

Inhalation: Remove victim to fresh air. Seek medical attention if symptoms persist.

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*** Section 5 – Fire Fighting Measures ***

Extinguishing Media: Water spray, dry chemical, carbon dioxide, Alcohol resistant foam. Use water spray to cool fire-exposed containers.

Fire Fighting Equipment/Instructions: Wear full firefighting turn-out gear and positive pressure SCBA.

Hazardous Combustion Products: carbon monoxide, carbon dioxide

*** Section 6 – Accidental Release Measures ***

Maintain suitable ventilation. Do not smoke. Remove sources of ignition. Wear protective equipment.

Isolate area. Keep unnecessary personnel away. Dike large spills and prevent product from contaminating soil or from entering sewage and drainage systems and bodies of water.

Do not allow contact with skin, eyes or mucous membranes. Avoid inhalation of spilled material.

Wear appropriate protective equipment and clothing during clean up. Eliminate all ignition sources. Absorb spills with inert material and transfer to closed container for proper disposal.

*** Section 7 – Handling and Storage ***

Handling and Storage:

Do not get this material in your eyes, on your skin, or on your clothing. Do not inhale vapors or mists of this product. Do not reuse the empty container. Use this product with adequate ventilation. Wash thoroughly after handling. Keep this product from heat, sparks, or open flame. Do not eat, drink or smoke when using this product.

Store only in the original container; store tightly closed in an upright position in a cool, dry, well-ventilated area. **Do not store with:** Avoid contact with isocyanates. Exothermic reaction may occur.

*** Section 8 – Exposure Controls / Personal Protection ***

Engineering Controls: If general mechanical ventilation is insufficient, use local exhaust, especially in enclosed work areas.

Respiratory Protection: If ventilation is not sufficient to effectively prevent buildup of vapors, provide appropriate NIOSH respiratory protection for organic vapors.

Eye Protection: Wear chemical splash goggles.

Skin Protection: Use impervious gloves (neoprene). Wear work clothing sufficient to prevent skin contact, such as coveralls and long sleeves.

Other Protective Equipment: Know the locations of eyewash fountains and emergency showers.

*** Section 9 – Physical & Chemical Properties ***

Appearance: Colorless

Physical State Liquid

Vapor Pressure: Not available

Odor: Specific

pH: Not applicable

Vapor Density: Not available

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Boiling Point: 392°F
Flash Point: >572°F
Solubility (H2O): Soluble
Viscosity: 100 mPas @ 73.4° F (23° C)
Solvent Content: Solvent Free

Melting Point: Not available
Ignition Temperature: Not available
Specific Gravity: Not available
VOC: Not available

* * * Section 10 – Stability & Reactivity * * *

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Keep away from heat greater than 122°F, ignition sources and incompatible materials. Keep out of direct

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sunlight.

Incompatibility: Reacts rapidly with isocyanates.

* * * Section 11 – Toxicological Information * * *

Substance effects

CAS-No.

Value None Local

Skin: Slightly Irritating

Eye: Slightly Irritating to cornea. Sensitization:

No Sensitization

* * * Section 12 – Ecological Information * * *

Ecotoxicity

Substance

Species and value

None

Environmental Fate

Harmful to aquatic systems; keep liquid from entering sewers and natural waterways.

* * * Section 13 – Disposal Considerations * * *

Comply with all local, state, and federal regulations when disposing of this product.

* * * Section 14 – Transportation Information * * *

U.S. DOT Information: Not Regulated

* * * Section 15 – Regulatory Information * * *

All raw materials are on the U.S. EPA TSCA Inventory.

Component analysis: Nothing in this product is subject to regulation under SARA 302, SARA 313, or CERCLA. The product may be subject to SARA 312 reporting, depending upon the purchaser's storage circumstances.

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Acute Health: Yes **Chronic Health:** No **Fire:** No **Pressure:** No **Reactive:** No

Check individual state requirements, as additional regulations may apply.

* * * Section 16 – Other Information * * *

Disclaimer:

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. **MSDS History**

New MSDS Date: 11/04/09

This is the end of MSDS

Material Safety Data Sheet **KOSTER**
K B-PUR 2 IN 1 B-component

Material Name:

* * * **Section 1 – Chemical Product and Company Identification** * * *

Product Use: Polyurethane for injection **Manufacturer Information**

KOSTER America Corp.
2585 Aviator Drive
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Emergency # INFOTRAC: 800-535-5053

General Comments

NOTE: Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

* * * **Section 2 – Composition / Information on Ingredients** * * *

CAS #	Component	Percent
101-68-8	4,4'-Diphenylmethan-diisocyanate	<50

SECTION 2 NOTES:

Nothing in this product is listed as a carcinogen by OSHA, NTP, IARC, or ACGIH.

* * * **Section 3 – Hazards Identification** * * *

Emergency Overview

This product is a Polyurethane polymer, used as half of a two part system. This product is irritating to the eyes and skin. This product may cause sensitization by skin contact. Excessive inhalation of this material may cause headache, dizziness, nausea.

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HMIS Ratings: Health: 2 Fire: 1 Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

* * * **Section 4 – First Aid Measures** * * *

Eyes: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses. Seek medical attention at once.

Skin: Remove all contaminated clothing. Wash affected area with mild soap and water. If irritation persists, get medical attention. Wash contaminated clothing before reuse.

Ingestion: If the material is swallowed, have victim drink water to dilute stomach contents, and get immediate medical attention or advice. DO NOT INDUCE VOMITING.

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Inhalation: Remove victim to fresh air. Seek medical attention if symptoms persist.

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*** * * Section 5 – Fire Fighting Measures * * ***

Extinguishing Media: Water spray, dry chemical, carbon dioxide, Alcohol resistant foam. Use water spray to cool fire-exposed containers.

Fire Fighting Equipment/Instructions: Wear full firefighting turn-out gear and positive pressure SCBA. **Hazardous**

Combustion Products: carbon monoxide, carbon dioxide, amines, nitrogen oxides

*** * * Section 6 – Accidental Release Measures * * ***

Maintain suitable ventilation. Do not smoke. Remove sources of ignition. Wear protective equipment.

Isolate area. Keep unnecessary personnel away. Dike large spills and prevent product from contaminating soil or from entering sewage and drainage systems and bodies of water.

Do not allow contact with skin, eyes or mucous membranes. Avoid inhalation of spilled material.

Wear appropriate protective equipment and clothing during clean up. Eliminate all ignition sources. Absorb spills with inert material and transfer to closed container for proper disposal.

*** * * Section 7 – Handling and Storage * * ***

Handling and Storage:

Do not get this material in your eyes, on your skin, or on your clothing. Do not inhale vapors or mists of this product. Do not reuse the empty container. Use this product with adequate ventilation. Wash thoroughly after handling. Keep this product from heat, sparks, or open flame. Do not eat, drink or smoke when using this product.

Store only in the original container; store tightly closed in an upright position in a cool, dry, well-ventilated area.

Do not store with: Avoid contact with water (containers might burst) alcohols, amines, acids and bases. Reaction leads to high temperatures.

*** * * Section 8 – Exposure Controls / Personal Protection * * ***

Engineering Controls: If general mechanical ventilation is insufficient, use local exhaust, especially in enclosed work areas.

Respiratory Protection: If ventilation is not sufficient to effectively prevent buildup of vapors, provide appropriate NIOSH respiratory protection for organic vapors.

Eye Protection: Wear chemical splash goggles.

Skin Protection: Use impervious gloves (neoprene). Wear work clothing sufficient to prevent skin contact, such as coveralls and long sleeves.

Other Protective Equipment: Know the locations of eyewash fountains and emergency showers.

*** * * Section 9 – Physical & Chemical Properties * * ***

Appearance: Brownish

Physical State Liquid

Vapor Pressure: Not available

Boiling Point: Not available

Flash Point: >212°F

Odor: Musty

pH: Not applicable

Vapor Density: Not available

Melting Point: <32°F

Ignition Temperature: Not available

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Solubility (H₂O): Not miscible

Viscosity: 300 mPas @ 73.4° F (23° C)

Solvent Content: Solvent Free

Specific Gravity: Not available

VOC: Not available

***** Section 10 – Stability & Reactivity *****

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Thermal decomposition at temperatures higher than 500°F (260°C) (polymerization, CO² conditions to avoid formation)

Incompatibility: Reacts rapidly with water, amines, alcohols and amines. Closed containers might burst.

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***** Section 11 – Toxicological Information *****

Substance	CAS-No.	Value
4,4'-Diphenylmethan-diisocyanate	101-68-8	Dermal: LD 50 (rat). > 2000 mg/kg Oral: LD 50 (rat): LD 50 (rabbit): > 2000 mg/kg Inhalative: LD 50 (rat): 490 mg/kg aerosol, 4 h.

Local effects

Skin: Slightly Irritating

Eye: Slightly Irritating to cornea.

Sensation: Yes

***** Section 12 – Ecological Information *****

Ecotoxicity Substance	Species and value
4,4'-Diphenylmethan-diisocyanate	acute daphniae toxicity: EC 50 > 100 mg/l acute fish toxicity: LC 50 > 100 mg/l

Environmental Fate

Harmful to aquatic systems; keep liquid from entering sewers and natural waterways.

***** Section 13 – Disposal Considerations *****

Comply with all local, state, and federal regulations when disposing of this product.

***** Section 14 – Transportation Information *****

U.S. DOT Information: Not Regulated

***** Section 15 – Regulatory Information *****

All raw materials are on the U.S. EPA TSCA Inventory.

Component analysis: Nothing in this product is subject to regulation under SARA 302, SARA 313, or CERCLA. The product may be subject to SARA 312 reporting, depending upon the purchaser's storage circumstances.

Acute Health: Yes **Chronic Health:** No **Fire:** No **Pressure:** No **Reactive:** No

Check individual state requirements, as additional regulations may apply.

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* * * Section 16 – Other Information * * *

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MSDS History

New MSDS Date: 11/04/09

This is the end of MSDS