

MATERIAL SAFETY DATA SHEET (2-parts)

SECTION I – Product/Company Identification

1.1 Product Trade Name: KastEZ® Resin Curative PART - B
1.2 Part (Item) Number: SP40001W, SP40004W, SP40010W, SP40001R, SP40004R, SP40010R,
1.3 Division Name: ArtMolds
1.4 Address: 18 Bank Street
City State ZIP Summit NJ 07901
1.5 Emergency Telephone: 1-866-278-6653
1.6 Information Telephone: 1-908-273-5401
1.7 Date Prepared: 8/28/02 **Date Revised** 9/20/05

SECTION II – Hazardous Ingredients/Identity Information

<u>Hazardous Components</u>	<u>%</u>	<u>SHA PEL</u>	<u>ACGIH TLV</u>	<u>CAS Number</u>
Polyether Polyols Amine Based	50%	NE	NE	
Polymeric Plasticizer	50%	NE	NE	6846500

SECTION III – Physical/Chemical Properties

3.1 Boiling Point: 300 deg F
3.2 Vapor Pressure: NE
3.3 Vapor Density: NE
3.4 Solubility in water: Slight
3.5 Appearance and odor: Clear liquid, slight fruity odor
3.6 Specific Gravity: (H2O=1): 1.10
3.7 Melting point: N/A
3.8 Evaporation rate: NE

SECTION IV – Fire and Explosion Hazard Data

4.1 Flash Point (method used): 275 deg F
4.2 Flammability (explosive limits): LEL: NE UEL: NE
4.3 Extinguishing media: Foam, CO2, Dry Chemical, Water Fog
4.4 Special fire fighting procedures: JSE Self Contained Breathing Apparatus and Protective Clothing
4.5 Unusual fire and Explosion hazards: None known

SECTION V – Reactivity Data

5.1 Stability: Unstable: Stable: X
5.2 Conditions to avoid: NE
5.3 Incompatibility (materials to avoid): Strong oxidizers
5.4 Hazardous decomposition or byproducts: High temperatures and burning conditions may release incompletely burned carbon products, carbon monoxide, and carbon dioxide.
5.5 Hazardous polymerization: May Occur: May not occur: X
5.6 Conditions to avoid (polymerization)

SECTION VI – Health Hazard Data

6.1 Primary routes(s) of entry: Inhalation?: Yes Skin?: No Ingestion?: Yes
6.2 Health Hazards (acute and chronic): Acute: On the basis of available information, exposure to this product is not expected to produce any significant adverse health effects when recommended safety precautions are followed.

- 6.3 Carcinogenicity:
- 6.4 Signs and symptoms of exposure:
- 6.5 Medical conditions generally aggravated by exposure:
- 6.6 Emergency First aid procedures:

Chronic: On the basis of available information, exposure to this product is not expected to produce any significant adverse health effects when recommended safety precautions are followed

NTP?: No **IARC monographs:** No **OSHA Regulated?:** No
Skin and eye irritation.

Repeated contact may cause skin and eye irritation.
Skin – remove contaminated clothing and wash the affected area with isopropyl alcohol followed by soap and water. Eyes – Flush with water for at least 15 minutes – contact a physician. Ingestion – Do NOT induce vomiting. Take 1-2 glasses of water and contact a physician. Do not give anything by mouth to an unconscious person. Inhalation – Remove person to fresh air. If person is not breathing give mouth to mouth resuscitation and contact a physician.

SECTION VII – Precautions for Safe Handling

- 7.1 Steps to be taken in case material is released or spilled:

Cover material with an absorbent material (sawdust, vermiculite or wet sand). After material is absorbed scoop up and place in containers for disposal.

- 7.2 Waste Disposal methods:

Waste must be disposed of in accordance with federal, state and local environment regulations. Incinerate or bury in a licensed facility. Containers may be disposed of or reclaimed in a routine manner.

- 7.3 Precautions to be taken in handling and storage:

Store in a cool dry place in tightly sealed containers. Protect from moisture contamination.

- 7.4 Other precaution:

Avoid skin and eye contact.

SECTION VII – Control Measure / Personal Protection

- 8.1 Respiratory protection:

None needed at normal temperatures. Use a self-contained breathing apparatus under emergency conditions.

- 8.2 Ventilation:

Local Exhaust: Use in a ventilated area. Mechanical (General): Recommended.

- 8.3 Protective gloves:

Impervious

- 8.4 Eye protection:

Goggles or safety glasses with shields

- 8.5 Other protective clothing or equipment:

An apron or suitable clothing to prevent skin contact.

- 8.6 Work/Hygienic practices:

Normal cleanliness should be observed.

NFPA – National Fire Protection Association
N/A – Not Applicable
N/E – Not Established

NFPA HAZARD CLASSIFICATIONS	
Health	1
Flammability	1
Reactivity	0
Special	1

MATERIAL SAFETY DATA SHEET (2-parts)

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1.3 Division Name: ArtMolds
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SECTION II – Hazardous Ingredients/Identity Information

<u>Hazardous Components</u>	<u>SHA PEL</u>	<u>ACGIH TLV</u>	<u>CAS Number</u>
Methylene Bisphenyl Isocyanate Section 15 (MBI)	0.02 ppm	0.005 ppm	101688
Diphenylmethane Dilisocyanate (Homopolymer)	12-19 NE	NE	39310059
Diphenylmethane Dilisocyanate (MDI)	44-50 0.02 ppm	0.005 ppm	26447405
Polymeric Plasticizer	35-40 NE	NE	6846500
Triethyl Phosphate	<2 NE	NE	78400

SECTION III – Physical/Chemical Properties

3.1 Boiling Point: 500 deg F
3.2 Vapor Pressure: NE
3.3 Vapor Density: NE
3.4 Solubility in water: Reacts slowly to liberate CO2 gas
3.5 Appearance and odor: Light yellow; slightly musty odor
3.6 Specific Gravity: (H2O=1): .99
3.7 Melting point: N/A
3.8 Evaporation rate: Unknown

SECTION IV – Fire and Explosion Hazard Data

4.1 Flash Point (method used): 500 deg F
4.2 Flammability (explosive limits): LEL: NE UEL: NE
4.3 Extinguishing media: Foam, carbon dioxide, dry chemical and Halon 1211. If water is used, it should be used in very large quantities.
4.4 Special fire fighting procedures: JSE Self Contained Breathing Apparatus and Protective Clothing
4.5 Unusual fire and Explosion hazards: Contamination of Isocyanates with water releases carbon dioxide which may result in a dangerous amount of pressure build-up in closed containers. Do NOT reseal contaminated containers. Personnel must be evacuated. Use cold water to cool fire exposed containers.

SECTION V – Reactivity Data

5.1 Stability: Unstable: Stable: X
5.2 Conditions to avoid: NE
5.3 Incompatibility (materials to avoid): Water, acids, bases, alcohols, amines, and other materials which react with Isocyanates.
5.4 Hazardous decomposition or byproducts: High temperatures and burning conditions may release isocyanate vapors, carbon dioxide, carbon monoxide, nitrogen oxides, and traces of hydrogen cyanide.

5.5 Hazardous polymerization: **May Occur: X** **May not occur:**
5.6 Conditions to avoid (polymerization) Temperatures above 120 deg F will accelerate reactions with water.
 Polymerization may occur above 400 deg F.

SECTION VI – Health Hazard Data

6.1 Primary routes(s) of entry: **Inhalation?:** Yes **Skin?:** Yes **Ingestion?:** Yes
6.2 Health Hazards (acute and chronic): **Acute:** Inhalation of the vapors may cause irritation of the mucous membranes in the respiratory tract, running nose and sore throat. Contact may cause slight irritation of the skin and eyes (tearing).
Chronic: Repeated or prolonged inhalation of MDI vapors above TLV of 0.02 ppm can cause immediate or delayed respiratory sensitization and asthma-like conditions. Prolonged skin contact can cause reddening, swelling, or skin sensitization in susceptible individuals.
6.3 Carcinogenicity: **NTP?:** No **IARC monographs:** No **OSHA Regulated?:** No
6.4 Signs and symptoms of exposure: Skin, eye, and respiratory tract irritation.
6.5 Medical conditions generally aggravated by exposure: Prolonged skin contact can cause reddening, swelling, or skin sensitization in susceptible individuals. Repeated or prolonged inhalation above TLV can cause immediate or delayed respiratory sensitization and asthma-like conditions in susceptible individuals.
6.6 Emergency First aid procedures: Skin – remove contaminated clothing and wash the affected area with isopropyl alcohol followed by soap and water. Eyes – Flush with water for at least 15 minutes – contact a physician. Ingestion – Do NOT induce vomiting. Take 1-2 glasses of water and contact a physician. Do not give anything by mouth to an unconscious person. Inhalation – Remove person to fresh air. If person is not breathing give mouth to mouth resuscitation and contact a physician.

SECTION VII – Precautions for Safe Handling

7.1 Steps to be taken in case material is released or spilled: Cover material with an absorbent material (sawdust, vermiculite or wet sand). After material is absorbed scoop up and place in open containers. Treat material with the prepared decontamination solution and leave the container open in a well ventilated area for 48 hours. Spill area should also be decontaminated with the following decontamination solution: 90% water, 2% detergent, and 8% concentrated ammonia or sodium carbonate.
7.2 Waste Disposal methods: Waste must be disposed of in accordance with federal, state, and local environment control regulations. Incineration is the preferred method.
7.3 Precautions to be taken in handling and storage Store in a tightly closed containers at 70 deg F- 90 deg F in a dry ventilated area away from sources of heat, moisture, and incompatibles. Do NOT reseal containers if water contamination is suspected.
7.4 Other precaution: Avoid skin and eye contact. Avoid breathing vapors.

SECTION VII – Control Measure / Personal Protection

8.1 Respiratory protection: None needed at normal temperatures. Use a self contained breathing apparatus for high concentrations and under emergency conditions.
8.2 Ventilation: Local Exhaust: Provide mechanical (general) and/or local exhaust ventilation to control airborne levels below the exposure guidelines.
8.3 Protective gloves: Impervious rubber gloves.
8.4 Eye protection: Wear safety glasses or goggles.
8.5 Other protective clothing or equipment: An apron or suitable clothing to prevent skin contact.
8.6 Work/Hygienic practices: Normal cleanliness should be observed.

NFPA – National Fire Protection Association
 N/A – Not Applicable
 N/E – Not Established

NFPA HAZARD CLASSIFICATIONS	
Health	3

Flammability	1
Reactivity	0
Specific Hazard	C