

# Material Safety Data Sheet

## BP-5002 RESIN & HARDENER

Updated: 11/07

### Section 1 - Chemical Product and Company Identification

**Product Name:** BP-5002 RESIN

**General Use:** Combine with BP-5002 Hardener to make a room temperature curing putty to use for plastic tooling.

**Manufacturer:** BLEHM PLASTICS: 2140 Earlywood Drive, Franklin IN 46131

FOR CHEMICAL EMERGENCY CALL CHEMTREC (24 HOURS)

1-800-424-9300 (U.S., Canada, Puerto Rico, Virgin Islands)

1-703-527-3887 (Outside above area, collect calls accepted)

For non-emergency information, call: 1-317-736-4090 (Monday-Friday 7:30am to 4:30pm EST)

### Section 2 - Composition / Information on Ingredients

Ingredient Name	Exposure Limits	CAS Number	% wt
Diglycidyl Ether of Bisphenol-A	None established	25068-38-6	<10
Aluminum Powder	None established	7429-90-5	<90

### Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

HMIS	
<b>H</b>	1
<b>F</b>	1
<b>R</b>	0
†Sec. 8	

#### Potential Health Effects

**Primary Entry Routes:**

**Target Organs:**

**Acute Effects**

**Inhalation:** Inhalation is not a likely route of exposure due to the low volatility.

**Eye:** Moderately irritating.

**Skin:** May cause irritation. May result in sensitization.

**Ingestion:** May cause nausea and vomiting.

**Carcinogenicity:** IARC, NTP, and OSHA do not list product as a carcinogen.

**Medical Conditions Aggravated by Long-Term Exposure:** Skin disorders may be affected and compounded with irritation.

Pre-existing skin or lung allergies may develop increased symptoms.

**Chronic Effects:** No evidence of adverse effects from available information.

**PLEASE NOTE:**

Before using, please see the hardener MSDS concerning the hazards of the hardener.

### Section 4 - First Aid Measures

**Inhalation:** Remove to fresh air.

**Eye Contact:** Flush with large amounts of water for at least 15 minutes. Get prompt medical attention.

**Skin Contact:** Remove contaminated clothing. Wash with soap and water.

**Ingestion:** Drink 2 glasses of water and induce vomiting.

*After first aid, get appropriate in-plant, paramedic, or community medical support.*

**Note to Physicians:** There is no specific antidote. Treatment should be directed to the control of symptoms.

### Section 5 - Fire-Fighting Measures

**Flash Point:** 330 °F (166 °C)

**Flash Point Method:** PMCC

**Auto Ignition Temperature:** Not determined

**LEL:** Not determined

**UEL:** Not determined

**Extinguishing Media:** Water fog, carbon dioxide, or dry chemical.

**Unusual Fire or Explosion Hazards:** Water or foam may be dangerous if sprayed into a container of burning liquid.

**Sensitivity to Mechanical Discharge:** No

**Sensitivity to Static Discharge:** No

**Hazardous Combustion Products:** Carbon monoxide and carbon dioxide.

**Fire-Fighting Instructions:** Do not release runoff from fire control methods to sewers or waterways.

**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

## Section 6 - Accidental Release Measures

**Spill /Leak Procedures:**

**Small Spills:** This is a soft putty-like solid, pick up and replace in container.

**Large Spills:**

**Containment:** Do not release into sewers or waterways.

**Cleanup:** This is a soft putty-like solid, which is sold in 1 gallon containers, pick up and replace in container.

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

## Section 7 - Handling and Storage

**Handling Precautions:** Avoid skin and eye contact. Wash after handling. Do not take internally.

**Storage Requirements:** Store in a cool, dry place. Keep away from open flames and high temperatures.

## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:**

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Administrative Controls:** †PPE = Personal Protective Equipment

**Respiratory Protection:** Not ordinarily required.

**Protective Clothing/Equipment:** Wear chemically protective gloves and aprons to prevent prolonged or repeated skin contact.

Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133).

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

## Section 9 - Physical and Chemical Properties

**Physical State:** Solid

**Appearance and Odor:** Gray putty with hydrocarbon odor.

**Odor Threshold:** Unknown

**Vapor Pressure:** Not available

**Vapor Density (Air=1):** <1.0

**Density:** 1.42g/ml

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 1.42

**pH:** Not applicable

**Water Solubility:** Not available

**Coefficient of Water/Oil Distribution:** Not available

**Boiling Point:** Not applicable

**Freezing/Melting Point:** Not available

**% Volatile:** Not applicable

**Evaporation Rate:** Not applicable

## Section 10 - Stability and Reactivity

**Stability:** Product is stable at room temperature in closed containers under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization cannot occur.

**Chemical Incompatibilities:** Oxidizing agents.

**Conditions to Avoid:** None.

**Hazardous Decomposition Products:** Thermal oxidative decomposition of product can produce carbon monoxide and carbon dioxide.

## Section 11- Toxicological Information

### Toxicity Data:

**Eye Effects:** Moderately irritating.

**Skin Effects:**

Irritancy: Mild.

Sensitization: May result.

**Synergistic Products:** None.

**Acute Inhalation Effects:**

LC<sub>50</sub>: Not available.

Inhalation is not an expected route of exposure, due to low volatility of product.

**Acute Oral Effects:**

Rat, oral, LD<sub>50</sub>: >2 g/kg diglycidyl ether of bisphenol-A

**Chronic Effects:** No evidence of adverse effects from available information.

**Reproductive Effects:** None Known

**Mutagenicity:** None

**Teratogenicity:** None

## Section 12 - Ecological Information

**Ecotoxicity:** Keep out of surface waters, sewers and waterways.

## Section 13 - Disposal Considerations

**Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

## Section 14 - Transport Information

### DOT Transportation Data (49 CFR 172.101):

**Shipping Name:** Not regulated.

## Section 15 - Regulatory Information

**EPA Regulations:**

RCRA Hazardous Waste Number: Not listed

RCRA Hazardous Waste Classification (40 CFR 261): Not classified.

CERCLA Hazardous Substance (40 CFR 302.4): Unlisted.

CERCLA Reportable Quantity (RQ): Not listed.

SARA 311/312 Codes: Immediate Health Hazard.

SARA Toxic Chemical (40 CFR 372.65): Not listed

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed.

**OSHA Regulations:**

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed.

**Other Regulations:**

This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all of the information required by the CPR.

## Section 16 - Other Information

**Prepared By:** Roger Brunette

**Disclaimer:** The information on this MSDS is based on the data available to us and is believed to be correct. However, Blehm Plastics, Inc. makes no warranty, express or implied regarding the accuracy of this data.

## Section 1 - Chemical Product and Company Identification

**Product Name:** BP-5002 HARDENER

**General Use:** Combine with BP-5002 Resin to make a room temperature curing putty to use for plastic tooling.

**Manufacturer:** BLEHM PLASTICS: 2140 Earlywood Drive, Franklin IN 46131

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## Section 2 - Composition / Information on Ingredients

Ingredient Name	Exposure Limits	CAS Number	% wt
Epoxy-polyamine Adduct	None established	31326-29-1	<25
Triethylenetetramine	None established	112-24-3	<4
Polyamine Resin	None established	68410-23-1	<28

## Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

HMIS	
<b>H</b>	2
<b>F</b>	1
<b>R</b>	0
†Sec. 8	

### Potential Health Effects

**Primary Entry Routes:**

**Target Organs:**

**Acute Effects**

**Inhalation:** Vapor is irritating.

**Eye:** Can cause burns.

**Skin:** May cause burns.

**Ingestion:** May cause burns of mouth, throat, abdominal pain, nausea and vomiting.

**Carcinogenicity:** IARC, NTP, and OSHA do not list product as a carcinogen.

**Medical Conditions Aggravated by Long-Term Exposure:** May produce asthmatic response. May aggravate existing dermatitis.

**Chronic Effects:** May cause sensitization of the respiratory tract and skin.

## Section 4 - First Aid Measures

**Inhalation:** Remove to fresh air. Use oxygen if necessary. Get medical attention.

**Eye Contact:** Immediately flush with large amounts of water for at least 15 minutes. Get prompt medical attention.

**Skin Contact:** Remove contaminated clothing. Wash with soap and water. Get medical attention.

**Ingestion:** **DO NOT** induce vomiting. Give large quantities of water. Get medical attention.

*After first aid, get appropriate in-plant, paramedic, or community medical support.*

**Note to Physicians:** There is no specific antidote. Treatment should be directed to the control of symptoms.

## Section 5 - Fire-Fighting Measures

**Flash Point:** 400 °F (204 °C)

**Flash Point Method:** PMCC

**Auto Ignition Temperature:** <300 °F (<148 °C)

**LEL:** Not determined

**UEL:** Not determined

**Extinguishing Media:** Water fog, carbon dioxide, or dry chemical

**Unusual Fire or Explosion Hazards:** Water or foam may be dangerous if sprayed into a container of burning liquid.

**Sensitivity to Mechanical Discharge:** No

**Sensitivity to Static Discharge:** No

**Hazardous Combustion Products:** Nitrogen oxide gas and carbon monoxide.

**Fire-Fighting Instructions:** Do not release runoff from fire control methods to sewers or waterways.

**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

### Section 6 - Accidental Release Measures

**Spill /Leak Procedures:**

**Small Spills:** This putty is a solid, pick up and return to container.

**Large Spills:**

**Containment:** Do not release into sewers or waterways.

**Cleanup:** This is a putty-like solid, which is sold in 1 gallon containers, pick up and return to container.

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

### Section 7 - Handling and Storage

**Handling Precautions:** Do not get in eyes, on skin, or on clothing. Avoid breathing vapor. Keep container closed. Use with ventilation. Wash thoroughly after handling.

**Storage Requirements:** Store at room temperature.

### Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:**

**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Administrative Controls:** †PPE = Personal Protective Equipment

**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions.

**Protective Clothing/Equipment:** Wear chemically protective gloves, and aprons, to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133).

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

### Section 9 - Physical and Chemical Properties

**Physical State:** Solid

**Appearance and Odor:** Rust colored putty with ammonia odor.

**Odor Threshold:** Unknown

**Vapor Pressure:** <0.1 mm Hg

**Vapor Density (Air=1):** >1

**Density:** 0.342 g/ml

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 0.342

**pH:** Not applicable

**Water Solubility:** <5%

**Coefficient of Water/Oil Distribution:** Not available

**Boiling Point:** Not applicable

**Freezing/Melting Point:** Not available

**% Volatile:** Not applicable

**Evaporation Rate:** Not available

### Section 10 - Stability and Reactivity

**Stability:** Product is stable at room temperature in closed containers under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization cannot occur.

**Chemical Incompatibilities:** Mineral or organic acids and oxidizing agents.

**Conditions to Avoid:** Closed containers may rupture (due to pressure build up) when exposed to extreme heat.

**Hazardous Decomposition Products:** Thermal oxidative decomposition of product can produce carbon monoxide and oxides of nitrogen.

**Section 11- Toxicological Information****Toxicity Data:**

**Eye Effects:** Moderately irritating. May cause burns.

**Skin Effects:** moderately irritating. May cause burns.

Irritancy: Moderate.  
Sensitization: Yes.

**Synergistic Products:** None.

**Acute Inhalation Effects:**

LC<sub>50</sub>: Not available.

**Acute Oral Effects:**

Rat, oral, LD<sub>50</sub>: 8.0 g/kg for polyamine resin.

**Chronic Effects:** May cause skin and respiratory sensitization.

**Reproductive Effects:** None Known

**Mutagenicity:** None

**Teratogenicity:** None

**Section 12 - Ecological Information**

**Ecotoxicity:** Keep out of surface waters, sewers and waterways.

**Section 13 - Disposal Considerations**

**Disposal:** Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

**Section 14 - Transport Information****DOT Transportation Data (49 CFR 172.101):**

**Shipping Name:** Not regulated.

**Section 15 - Regulatory Information****EPA Regulations:**

RCRA Hazardous Waste Number: Not listed.

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