



## 1. Identification

Product Identifier: **Amazing Casting Resin Black Part B**  
**Amazing Casting Resin Tan Part B**  
**Amazing Casting Resin White Part B**

Product Code(s): ALRC3B, ALRC-3WHITEBS

Use: Component for Mold Making and Casting. For Industrial/Professional use only.

Manufacturer: Polytek Development Corp.  
55 Hilton Street, Easton, PA 18042

Phone Number: 269-488-4000 (8 a.m. to 4 p.m. EST)

Emergency Phone: CHEMTREC 800-424-9300 or  
+1 703-527-3887

E-mail: [sds@polytek.com](mailto:sds@polytek.com)

## 2. Hazards Identification

### GHS Classification:

Acute Toxicity (Inhalation) – Category 4  
Skin Irritation – Category 2  
Eye Irritation – Category 2B  
Respiratory Sensitization – Category 1  
Skin Sensitization – Category 1B  
Specific Target Organ Toxicity – Single Exposure Category 3  
Specific Target Organ Toxicity – Repeated Exposure Category 2  
Aspiration Toxicity – Category 1

Label Elements: Danger



### Hazard Phrases

H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H320 Causes eye irritation.  
H332 Harmful if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing lung cancer.  
H373 May cause damage to organs through prolonged and repeated exposure.

### Precautionary Phrases

P260 Do not breathe fumes, vapors, mists or sprays.  
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.  
P280 Wear protective gloves.  
P284 In case of inadequate ventilation, wear respiratory protection.  
P301+P316 IF SWALLOWED: Get emergency medical help immediately.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P304+P340 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P317 Get medical help.  
P319 Get medical help if you feel unwell.  
P331 Do NOT induce vomiting.  
P333+P317 If skin irritation or rash occurs: Get medical help.  
P337+P317 If eye irritation persists: Get medical help.

P342+P316 If experiencing respiratory symptoms: Get emergency medical help immediately.

P362+P364 Take off contaminated clothing and wash before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local, regional and national regulations.

**Supplemental Information:** Individuals sensitized to isocyanates should discontinue use. This is one part of a two-part system. Read and understand the hazard information on part A before using.

## 3. Composition/Information on Ingredients

Chemical Name	CAS #	%
Diphenylmethane-4,4' diisocyanate (MDI)	101-68-8	40-50
P-MDI	9016-87-9	25-35
Benzene, C-10-C13 Alkyl	129813-58-7	25-35
Exact concentrations are withheld as trade secret. Other ingredients are not listed because they are either not hazardous or are below concentration/cut-off thresholds.		

## 4. First-Aid Measures

**Eye Contact:** Rinse thoroughly with water for at least 15 minutes, holding the eyelids open to be sure the material is washed out. Get medical attention if irritation develops or persists.

**Skin Contact:** Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation develops or persists. Launder clothing before reuse. Discard items that cannot be decontaminated.

**Inhalation:** Remove person to fresh air. Give artificial respiration if needed. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if you feel unwell.

**Most Important Symptoms/Effects:** Harmful if inhaled. May be fatal if swallowed and enters airways.

**Indication of Immediate Medical Attention/Special Treatment:** Get immediate medical attention if inhaled.

## 5. Fire-Fighting Measures

**Extinguishing Media:** Use water fog, foam, carbon dioxide or dry chemical. Do not use solid water stream. Solid stream of water into hot product may cause violent steam generation or eruption.

**Specific Hazards:** Not classified as flammable or combustible. Product will burn under fire conditions.

**Special Protective Equipment & Precautions for Fire-Fighters:** Wear positive pressure, self-contained breathing apparatus and full-body protective clothing. Cool fire-exposed containers with water.

## 6. Accidental Release Measures

### Personal Precautions, Protective Equipment and Emergency

**Procedures:** Remove all ignition sources. Clear non-emergency personnel from the area. Ventilate area. Wear appropriate protective clothing to prevent eye and skin contact and respiratory protection.

**Methods and Materials for Containment and Cleanup:** Cover with an inert absorbent material and collect into an appropriate container for disposal. Do not seal the container since CO<sub>2</sub> is generated on contact with moisture and dangerous pressure buildup can occur. Decontaminate floor area with a mixture of water (90%) plus household ammonia (8%), and detergent (2%).



## 7. Handling and Storage

**Safe Handling:** Do not breathe fumes, vapors, mists or sprays. Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep container closed when not in use.

**Safe Storage:** Store indoors at temperatures between 55°F and 95°F (13°C and 35°C). Store in original, unopened containers. Protect from atmospheric moisture and water.

## 8. Exposure Controls/Personal Protection

**Occupational Exposure Limits:** For MDI:

OSHA PEL 0.02 ppm (C)

ACGIH TLV 0.005 ppm TWA

**Ventilation:** Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

**Respiratory Protection:** If needed (i.e., ventilation is inadequate), use a NIOSH-approved air-purifying, tight-fitting, half-face respirator with organic vapor cartridges. Respirator selection and use should be based on contaminant type, form and concentration. For higher exposures or in an emergency, use a supplied-air respirator. Use respirators in accordance with OSHA's Respiratory Protection Standard (29 CFR 1910.134).

**Skin Protection:** Wear impervious gloves, such as butyl rubber or nitrile rubber.

**Eye Protection:** Wear chemical safety goggles/glasses.

**Other Protective Measures:** Wear impervious clothing to prevent skin contact and contamination of personal clothing. An eye wash and washing facility should be available in the work area. Follow good Industrial Hygiene practices.

## 9. Physical and Chemical Properties

**Appearance:** Clear amber liquid

**Odor:** Mild

**Odor Threshold:** Not determined

**pH:** Not applicable

**Melting Point:** No data available

**Boiling Point:** 200°C

**Flash Point:** >350°F (177°C) estimated

**Evap. Rate:** No data available

**Flammable Limits:** No data available

**Vapor Pressure:** ≤0.01 mm Hg @ 20°C

**Vapor Density:** No data available

**Relative Density:** No data available

**Solubility:** Insoluble in water

**Partition Coefficient: n-octanol/Water:** Reacts with water

**Auto-Ignition Temp:** No data available

**Decomposition Temp:** No data available

**Viscosity:** No data available

## 10. Stability and Reactivity

**Reactivity:** Diisocyanates react with many materials and the rate of reaction increases with temperature. Reaction with water generates carbon dioxide and heat.

**Chemical Stability:** Stable under recommended conditions.

**Possibility of Hazardous Reactions:** Elevated temperatures can cause hazardous polymerization. Polymerization can be catalyzed by strong bases or water. Reaction with water generates carbon dioxide, and results in heat and pressure buildup in closed systems.

**Conditions to Avoid:** Avoid moisture and temperatures below 55°F (13°C) and above 95°F (35°C) to protect product integrity.

**Incompatible Materials:** Avoid contact with water, acids, bases, alcohols and strong oxidizers.

**Hazardous Decomposition Products:** Possibly isocyanate vapor, carbon monoxide, nitrogen oxides, and carbon dioxide.

## 11. Toxicological Information

**Eye Contact:** Causes eye irritation.

**Skin Contact:** Causes skin irritation. May cause an allergic skin reaction.

**Inhalation:** Harmful if inhaled. May be fatal if swallowed and enters airways. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

**Ingestion:** May be fatal if swallowed and enters airways.

**Chronic Health Effects:** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

**Acute Toxicity Values:** For MDI (CAS 101-68-8):

Oral LD<sub>50</sub> (rat): >2,000 mg/kg

Dermal LD<sub>50</sub> (rabbit): >9,400 mg/kg

Inhalation LC<sub>50</sub> (rat): 2.0 mg/L

**Respiratory Sensitization:** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Components are not classified as mutagens.

**Carcinogenicity:** Components are not classified as carcinogens.

**Reproductive Toxins:** Components are not classified as reproductive toxins.

**Specific Target Organ Toxicity:** May cause respiratory irritation, drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.

**Aspiration Toxicity:** May be fatal if swallowed and enters airways.

## 12. Ecological Information

**Ecotoxicity:** No data available. Do not release into waterways.

**Persistence and Degradability:** No data available.

**Bioaccumulative Potential:** No data available.

**Mobility in Soil:** No data available.

## 13. Disposal Considerations

Dispose according to local, state and federal regulations. Upon exposure to moisture, product forms an inert, non-hazardous solid. In the U.S., this product is not a RCRA hazardous waste (per 40 CFR 261).

## 14. Transport Information

Not regulated for transport in any mode.

EMERGENCY SHIPPING: CHEMTREC, 800-424-9300 or +1-703-527-3887

## 15. Regulatory Information

**U.S. FEDERAL REGULATIONS:**

**CERCLA Reportable Quantity:** RQ for MDI is 5000 lb. Some States have more stringent requirements. Report spills in accordance with local and state regulations.

**SARA TITLE III Section 311/312:** Acute Health, Chronic Health  
**Section 313 Toxic Chemicals:** This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:  
Diphenylmethane-4,4'-diisocyanate (CAS 101-68-8) 40-50%

**EPA Toxic Substances Control Act (TSCA) Status:** Components of this product are listed on the TSCA inventory.

**STATE REGULATIONS:**

**California Proposition 65:** These products do not contain chemicals known to the State of California to cause cancer and/or reproductive harm. [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## 16. Other Information

**Training Advice:** Train personnel using this product in proper chemical handling, engineering controls and protective equipment.

**Recommended Uses and Restrictions:** This product is intended for industrial/professional use only.

**SDS Revision Notes:** Reviewed, revised new format: August 6, 2018; Reviewed and updated: December 9, 2021; Reviewed and updated: August 2, 2023; Produce name change: March 6, 2024



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