

Permatex, Inc.  
 10 Columbus Blvd.  
 Hartford, CT 06106 USA  
 Telephone: 1-87-Permatex  
 (877) 376-2839  
 Emergency: 800-255-3924

## Material Safety Data Sheet

### 1. PRODUCT IDENTIFICATION

**Product Name:** 82565 PLASTIC BONDER 2 GR PART 1  
**Item No:** ECGEL3  
**Product Type:** Cyanoacrylate ester

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percent	ACGIH 8 Hr. TWA:	OSHA 8 Hr. TWA:
ETHYL CYANOACRYLATE 7085-85-0	85-90	0.2 ppm TWA	Not Listed
AMORPHOUS SILICA 7631-86-9	5-15	10 mg/m <sup>3</sup> TWA	6 mg/m <sup>3</sup> TWA
POLY (METHYL METHACRYLATE) 9011-14-7	1-10	Not Listed	Not Listed
1,4-DIHYDROXYBENZENE 123-31-9	0.1-0.5	2 mg/m <sup>3</sup> TWA	2 mg/m <sup>3</sup> TWA

### 3. HAZARDS IDENTIFICATION

**Toxicity:** Note: This product does not contain microcrystalline silica. Skin contact may cause burns. Bonds skin rapidly and strongly. Causes eye irritation. Irritates mucous membranes.  
**Primary Routes of Entry:** Eye and skin contact, ingestion, inhalation.  
**Signs and Symptoms of Exposure:** Vapor is irritating to eyes and mucous membranes above TLV. Prolonged and repeated overexposure to vapors may produce symptoms of non-allergic asthma in sensitive individuals.

Ingredients	Percent	NTP:	ACGIH Carcinogens	IARC:
POLY (METHYL METHACRYLATE) 9011-14-7	1-10			Group 3 Vol. 19, pg 187; 1979
1,4-DIHYDROXYBENZENE 123-31-9	0.1-0.5	male rat-some evidence; female rat-some evidence; male mice-no evidence; female mice-some evidence	A3 - Animal Carcinogen	Group 3 Vol. 71, pg 691; 1999

**Medical Conditions Recognized as Being Aggravated by Exposure:** None known

### 4. FIRST AID MEASURES

**Ingestion:** Ingestion is not likely. The adhesive solidifies and adheres in the mouth. If lips are accidentally stuck together, apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips with direct opposing action. Saliva will lift the adhesive in one half to two days.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapors. Oxygen or artificial respiration if needed. Obtain medical attention.

**Skin Contact:** Remove excess adhesive. Soak in warm, soapy water. The adhesive will come loose from the skin in several hours. Cured adhesive does not present a health hazard even when bonded to the skin. For skin adhesion, first immerse the bonded surfaces in warm, soapy water. Peel or roll the surfaces apart with the aid of a blunt edge, e.g., spatula or teaspoon handle; then remove adhesive from the skin with soap and water. Do not try to pull surfaces apart with a direct opposing action. Cyanoacrylates give off heat on solidification. In rare cases, a large drop will increase in temperature enough to cause a burn. Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above.

**Eye Contact:** In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in 1-4 days. There will be no residual damage. Do not try to open the eyes by manipulation. If cyanoacrylate is introduced into the eyes, it will attach to the eye protein and will disassociate from it over intermittent periods, generally several hours. This will cause periods of weeping until clearance is achieved. During this period, double vision may be experienced together with a lachrymatory effect, and it is important to understand the cause and realize that disassociation will normally occur within a matter of hours, even with gross contamination.

## **5. FIRE FIGHTING MEASURES**

**Flash Point (°F/C):** 185 degrees F. Method: Tag Closed Cup  
**Recommended Extinguishing Media:** Carbon Dioxide, Dry Chemicals, Foam.  
**Special Fire-Fighting Procedures:** Firefighters should wear self-contained breathing apparatus.  
**Hazardous Products Formed by Fire or Thermal Decomposition:** Irritating vapors.  
**Unusual Fire/Explosion Hazards:** May polymerize exothermically.

**Lower Explosive Limit:** Not determined.  
**Upper Explosive Limit:** Not determined.

## **6. ACCIDENTAL RELEASE MEASURES**

**Spill Procedures:** Flood with water to polymerize. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.

## **7. HANDLING AND STORAGE**

**Storage:** Store below 75 degrees F.  
**Handling:** Avoid contact with skin and eyes. Do not inhale vapors. Keep container closed when not in use. Wash hands before eating and smoking.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Eyes:** Safety glasses.  
**Skin:** Neoprene or nitrile gloves recommended.  
**Ventilation:** General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits during the use of this product.  
**Respiratory Protection:** An approved respirator (i.e. NIOSH, etc.) should be worn when exposures are expected to exceed the applicable limits..

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Gel  
**Odor:** irritating  
**Boiling Point (°F):** More than 300 degrees F.  
**pH:** Does not apply  
**Solubility in Water:** Polymerized  
**Specific Gravity:** 1.1 @ 75 degrees F.  
**VOC Content(Wt.%):** <20 g/l (California SCAQMD Method 316B)  
**Vapor Pressure:** Less than 0.2 mm Hg @ 75 degrees F.  
**Vapor Density (Air=1):** Approximately 3  
**Evaporation Rate:** Not Determined

## **10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable at normal conditions  
**Hazardous Polymerization:** MAY OCCUR Hazardous polymerization may occur if over-catalyzed or insufficiently aerated after catalyzation. This polymerization is exothermic.  
**Incompatibilities:** Polymerized by contact with water, alcohols, amines or alkalis.  
**Conditions to Avoid:** Avoid contact with clothes, fabrics, rags or tissue. Contact with these material may cause polymerization.  
**Hazardous Products Formed by Fire or Thermal Decomposition:** Irritating vapors.

## **11. TOXICOLOGICAL INFORMATION**

See Section 3

**12. ECOLOGICAL INFORMATION**

No data available

**13. DISPOSAL CONSIDERATIONS**

**Recommended Method of Disposal:** Disposal should be made in accordance with federal, state and local regulations.

**US EPA Waste Number:** NH - Not a RCRA Hazardous Waste Material

**14. TRANSPORTATION INFORMATION**

**DOT (49CFR 172)**

**Domestic Ground Transport**

**DOT Shipping Name:** Unrestricted  
**Hazard Class:** NONE  
**UN/ID Number:** None  
**Marine Pollutant:** None

**IATA**

**Proper Shipping Name:** not regulated  
**Class or Division:** None  
**UN/NA Number:** None

**IMDG**

**Proper Shipping:** Unrestricted  
**Hazard Class:** None  
**UN Number:** None

**15. REGULATORY INFORMATION**

**SARA 313 Chemicals:** The following component(s) is listed as a SARA Section 313 Toxic Chemical.

**SARA 313 Information**

NONE

**CALIFORNIA PROP 65:**

No California Prop 65 chemicals are known to be present.

**TSCA Inventory Status:**

**Listed on Inventory:** YES All components of this product are listed (or exempt) on the EPA TSCA inventory.

**16. OTHER INFORMATION**

**Estimated NFPA Rating:** HEALTH 2, FLAMMABILITY 2, REACTIVITY 1

**Estimated HMIS Classification:** HEALTH 2, FLAMMABILITY 2, PHYSICAL HAZARD 0

NFPA is a registered trademark of the National Fire Protection Assn.

HMIS is a registered trademark of the National Paint and Coatings Assn.

**Prepared By:** Denise Boyd, Health and Safety Manager  
**Company:** Permatex, Inc. 10 Columbus Blvd. Hartford, CT USA  
06106

**Revision Date:** 02/14/2005  
**Revision Number:** 5

**Telephone Number:** 1-87-Permatex (877) 376-2839

Permatex, Inc.  
 10 Columbus Blvd.  
 Hartford, CT 06106 USA  
 Telephone: 1-87-Permatex  
 (877) 376-2839  
 Emergency: 800-255-3924  
 International Emergency: 813-248-0585

## Material Safety Data Sheet

### 1. PRODUCT IDENTIFICATION

**Product Name:** 82565 PLASTIC BONDER 2G PART 2  
**Item No:** AC70D  
**Product Type:** Activator

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	ACGIH TLV: TWA	OSHA PEL:
ACETONE 67-64-1	>90	500 ppm TWA; 750 ppm STEL	1000 ppm TWA; 2400 mg/m <sup>3</sup> TWA

### 3. HAZARDS IDENTIFICATION

**Toxicity:** Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea. May cause nose, throat and respiratory irritation. May cause skin irritation in sensitive individuals. Aspiration hazard if swallowed. May cause moderate eye irritation. Prolonged exposure may cause liver and kidney effects and may affect the central nervous system.

**Primary Routes of Entry:** Eye and skin contact, ingestion, inhalation

**Signs and Symptoms of Exposure:** Coughing, chest pains, difficulty breathing, lung irritation, edema (which can be fatal), gastrointestinal disturbances, nausea, headache, vomiting, narcosis, coma and asphyxia.. Eyes: Exposure to liquid or vapor causes mild eye irritation. Symptoms may include burning, tearing, redness, stinging, blurred vision and corneal injury.

Component	Weight%	NTP	ACGIH Carcinogens	IARC
ACETONE 67-64-1	>90	Not known	A4 - Not Classifiable as a Human Carcinogen	Not known

**Medical Conditions Recognized as Being Aggravated by Exposure:** Heart disease and respiratory disorders.. Preexisting skin disorders.

### 4. FIRST AID MEASURES

**Ingestion:** Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. If not breathing, give artificial respiration. Obtain medical attention.

**Skin Contact:** Wash off with soap and water. If skin irritation persists, call a physician.

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

### 5. FIRE FIGHTING MEASURES

**Flash Point (°F/C):** 1.4°F TCC

**Recommended Extinguishing Media:** Carbon Dioxide, Dry Chemicals, Foam.

**Special Fire-Fighting Procedures:** Firefighters should wear self-contained breathing apparatus.

**Hazardous Products of Combustion:** Oxides of carbon

**Unusual Fire/Explosion Hazards:** Vapors may travel from container toward sources of ignition and flashback.

**Lower Explosive Limit:** 2.5  
**Upper Explosive Limit:** 12.8

### 6. ACCIDENTAL RELEASE MEASURES

**Spill Procedures:** Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.

## **7. HANDLING AND STORAGE**

**Storage:** Store away from heat, sparks or open flame. Do not store at temperatures above 120 degrees F. Keep in cool and dark place. Avoid direct sunlight.  
**Handling:** Avoid contact with skin and eyes. Do not inhale vapors. Do not use near heat, sparks or open flame. Keep container closed when not in use.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Eyes:** Safety glasses.  
**Skin:** Rubber or plastic gloves.  
**Ventilation:** General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.  
**Respiratory Protection:** An approved respirator (i.e. NIOSH, etc.) should be worn when exposures are expected to exceed the applicable limits.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Clear liquid  
**Odor:** Ketone  
**Boiling Point:** 133°F  
**pH:** Does not apply  
**Solubility in Water:** Complete  
**Specific Gravity:** 0.79  
**VOC Content(Wt.%):** 99%  
**Vapor Pressure:** 181 mm Hg @ 20°C  
**Vapor Density (Air=1):** 2.0 (air = 1)  
**Evaporation Rate:** >7 (ether = 1)

## **10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable at normal conditions  
**Hazardous Polymerization:** WILL NOT OCCUR.  
**Incompatibilities:** Strong oxidizers  
**Conditions to Avoid:** Keep away from heat, sparks and open flame. - No smoking.  
**Hazardous Products of Combustion:** Oxides of carbon

## **11. TOXICOLOGICAL INFORMATION**

See Section 3

## **12. ECOLOGICAL INFORMATION**

No data available

## **13. DISPOSAL CONSIDERATIONS**

**Recommended Method of Disposal:** Disposal should be made in accordance with federal, state and local regulations.  
**US EPA Waste Number:** D001 as per 40CFR 261.21

## **14. TRANSPORTATION INFORMATION**

### **DOT (49CFR 172)**

#### **Domestic Ground Transport**

**DOT Shipping Name:** Consumer Commodity (not more than one liter)  
**Hazard Class:** ORM-D  
**UN/ID Number:** None  
**Marine Pollutant:** None

### **IATA**

**Proper Shipping Name:** Consumer Commodity (Not more than 1 liter)  
**Class or Division:** Class 9  
**UN/ID Number:** ID 8000

### **IMDG**

**Proper Shipping:** Acetone, Solution, Limited Quantity  
**Hazard Class:** Class 3, PG II  
**UN Number:** UN 1090

**Product Name:** 82565 PLASTIC BONDER 2G PART 2

**Item No:** AC70D

## **15. REGULATORY INFORMATION**

**SARA 313 Chemicals:** The following component(s) is listed as a SARA Section 313 Toxic Chemical.

NONE

### **CALIFORNIA PROP 65:**

No California Prop 65 chemicals are known to be present.

### **TSCA Inventory Status:**

**Listed on Inventory:** YES All components of this product are listed (or exempt) on the EPA TSCA inventory.

## **16. OTHER INFORMATION**

**Estimated NFPA Rating:** HEALTH 1, FLAMMABILITY 3, REACTIVITY 0.

**Estimated HMIS Classification:** HEALTH 1, FLAMMABILITY 3, PHYSICAL HAZARD 0

NFPA is a registered trademark of the National Fire Protection Assn.

HMIS is a registered trademark of the National Paint and Coatings Assn.

**Prepared By:** Denise Boyd, Manager-Environmental, Health & Safety  
**Company:** Permatex, Inc. 10 Columbus Blvd. Hartford, CT USA 06106

**Revision Date:** February/26/2008

**Revision Number:** 3

**Telephone No.:** 1-87-Permatex (877) 376-2839