

ITW Permatex Canada  
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## Canadian Workplace Hazardous Materials Information System Material Safety Data Sheet

### I. PRODUCT IDENTIFICATION

**Product Name:** BLACK TOUGHENED ADHESIVE 20G  
**Item No:** 41040  
**Product Type:** Cyanoacrylate ester

### II. COMPOSITION/INFORMATION ON INGREDIENTS

| Component   | Weight% | LD50/oral/rat  | LC50/inhalation/rat | ACGIH; TLV-TWA       |
|---|---------|----------------|---------------------|----------------------|
| ETHYL-2-CYANOACRYLATE<br>7085-85-0                                    | >80     | >5 mL/kg       | not available       | 0.2 ppm              |
| PHTHALIC ANHYDRIDE<br>85-44-9   | <5      | 800-1600 mg/kg | >0.21 mg/L/1H       | 1 ppm                |
| POLY (METHYL METHACRYLATE)<br>9011-14-7                               | <5      | not available  | not available       |                      |
| TREATED SILICON DIOXIDE,<br>SYNTHETIC, CRYSTALLINE-FREE<br>67762-90-7 | <5      | >5,000 mg/kg   | not available       | 10 mg/m <sup>3</sup> |

### III. PHYSICAL DATA

**Physical State/Appearance:** Black liquid  
**Odour & Odour Threshold:** Sharp, irritating  
**Specific Gravity:** 1.1  
**Evaporation Rate:** Not determined  
**Vapour Pressure:** <0.2 mmHg @ 75°F (24°C)  
**Vapour Density:** Approximately 3  
**Freezing Point:** Not determined  
**pH:** Does not apply  
**Octanol/Water Coefficient:** Not determined  
**Boiling Point:** >150°C/302°F

### IV. FIRE AND EXPLOSIVE DATA

**Recommended Extinguishing Media:** Carbon Dioxide, Dry Chemicals, Foam.  
**Hazardous Combustion Products:** Irritating organic vapours  
**Sensitivity to Static Discharge:** Sensitivity to static discharge is expected; material has a flash point below 93°C.  
**Conditions of Flammability:** None anticipated.  
**Flash Point/Range:** >65 degrees C.  
**Autoignition Temperature:** Not determined  
**Upper Explosive Limit:** Not determined  
**Lower Explosive Limit:** Not determined

### V. REACTIVITY DATA

**Conditions Causing Chemical Instability:** Stable  
**Materials to avoid:** Water, Amines, Alkalies  
**Conditions of Reactivity:** High temperatures.  
**Hazardous Decomposition Products:** Carbon oxides

### VI. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Eye and skin contact, ingestion, inhalation  
**Existing Conditions Aggravated by Exposure:** Respiratory disorders

**Toxicity Information:** (See Effects of Acute Exposure to Product)

**Effects of Acute Exposure:** Skin contact may cause burns. Bonds skin rapidly and strongly. Causes eye irritation. Ingestion may cause damage to mucous membranes.

**Effects of Chronic Exposure:** May cause allergic respiratory reactions.

**Irritancy of Product:** See (Effects of Acute Exposure to Product)

**VI. HAZARDS IDENTIFICATION**

**Sensitization to Product:** (See Effects of Acute Exposure to Product)  
**Carcinogenicity:** (See Effects of Chronic Exposure to Product)  
**Reproductive Toxicity:** (See Effects of Chronic Exposure to Product)  
**Teratogenicity:** (See Effects of Chronic Exposure to Product)  
**Mutagenicity:** (See Effects of Chronic Exposure to Product)  
**Toxicologically Synergistic Products:** None known  
**WHMIS Hazard Class:** D2B TOXIC MATERIALS

**VII. PREVENTATIVE MEASURES**

**Personal Protection**  
**Eyes:** Safety glasses.  
**Skin:** Neoprene or nitrile gloves recommended. Do not wear protective clothes containing cotton.  
**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. In case of insufficient ventilation, wear an organic vapor respirator.  
**Engineering Controls:**  
**Spill Procedures:** Flood with water to polymerize. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.  
**Protection of Man and Environment:** Follow Canadian and local regulations for disposal.  
**Handling Procedures and Equipment:** Store in a dry area below 35°C.  
**Special Handling Information:** Avoid prolonged breathing of vapor. Keep away from eyes. Avoid prolonged contact with skin. Do not smoke while using. Wash hands after use.

**VIII. 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 vapours. 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. 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.  
**Eye Contact:**

**IX. SHIPPING INFORMATION**

**Canadian Transportation of Dangerous Goods**

**Proper Shipping Name:** Not regulated  
**Hazard Class:** None  
**UN/ID No:** None

**IATA (Air)**

**Proper Shipping Name:** Not regulated  
**Class or Division:** None  
**UN/ID Number:** None

**IMDG (Vessel)**

**Proper Shipping Name:** Not regulated  
**Hazard Class:** None  
**UN Number:** None

**X. PREPARATION INFORMATION**

**Estimated HMIS Classification:** HEALTH 2, FLAMMABILITY 2, PHYSICAL HAZARD 0  
HMIS is a registered trademark of the National Paint and Coatings Association

**Estimated NFPA Rating:** HEALTH 2, FLAMMABILITY 2, REACTIVITY 1  
(NFPA is a registered trademark of the National Fire Protection Association)

**Product Name: BLACK TOUGHENED ADHESIVE 20G**

**Item No: 41040**

**X. PREPARATION INFORMATION**

**Prepared By:** Denise Boyd, Manager-Environmental, Health & Safety

**Revision Date:** February 21, 2012

**Company:** ITW Permatex Canada. 35 Brownridge Rd. Unit 1, Halton Hills, ON L76 0C6

**Revision Number:** 2

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