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Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Weight Percent	ACGIH TLV:	OSHA PEL:
ETHYL CYANOACRYLATE 7085-85-0	80-100	0.2 ppm TWA	Not Listed
PHTHALIC ANHYDRIDE 85-44-9	<5	1 ppm TWA; 6.1 mg/m ³ TWA	2 ppm TWA; 12 mg/m ³ TWA
POLY (METHYL METHACRYLATE) 9011-14-7	<5	Not Listed	Not Listed
TREATED SILICON DIOXIDE, SYNTHETIC, CRYSTALLINE-FREE 67762-90-7	<5	10 mg/m ³ total dust TLV	10 mg/m ³ total dust
CARBON BLACK 1333-86-4	0.1-1.0	3.5 mg/m ³ TWA	3.5 mg/m ³ TWA
T-BUTYL PHENOL 98-54-4	0.1-1.0	Not Listed	Not Listed

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:

If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get 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:

3. HAZARDS IDENTIFICATION

Toxicity:

Skin contact may cause burns. Bonds skin rapidly and strongly. Causes eye irritation.

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.

Ingredient	Weight Percent	NTP	ACGIH Carcinogens	IARC
PHTHALIC ANHYDRIDE 85-44-9	<5	male rat-negative; female rat-negative; male mice-negative; female mice-negative	A4 - Not Classifiable as a Human Carcinogen	
POLY (METHYL METHACRYLATE) 9011-14-7	<5			Group 3 Vol. 19, pg 187; 1979
CARBON BLACK 1333-86-4	0.1-1.0		Group A4 - Not classifiable as a human carcinogen	Group 2B; Monograph 65, 1996

Medical Conditions Recognized as Being Aggravated by Exposure: None known

5. FIRE FIGHTING MEASURES

Flash Point (°F/C): >65 degrees C. 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 of Combustion: 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 or goggles.
Skin: Nitrile gloves.. Nitrile coated apron or clothing. Do not use cotton.
Ventilation: Positive down-draft exhaust ventilation should be provided to maintain vapor concentrations below TLV.
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: Black viscous liquid
Odor: SHARP/IRRITATING
Boiling Point: More than 300 degrees F.
pH: Does not apply
Solubility in Water: Polymerized
Specific Gravity: 1.05-1.10
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: WILL NOT OCCUR
Incompatibilities: Polymerized by contact with water, alcohols, amines or alkalies..
Conditions to Avoid: Avoid contact with clothes, fabrics, rags or tissue. Contact with these material may cause polymerization.
Hazardous Products of Combustion: 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: Unrestricted (Not more than one pint)
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.

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.

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