

MATERIAL SAFETY DATA SHEET
INSTABOND INSTANT ADHESIVES
 7/5/05

PRODUCTS COVERED: BCIB05, BCIB20, BCIBB, TCIBG

SECTION I—MANUFACTURER

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SECTION II—PRODUCTS

<u>Stock Number</u>	<u>Product Name on Label</u>	<u>Numbers of Ingredients in Products</u>		<u>HMIS RATING</u>			<u>Solubility</u>		<u>Solvent</u>	
				<u>H</u>	<u>F</u>	<u>R</u>	<u>% in Water</u>		<u>Volume %</u>	
BCIBB	INSTABOND BLACK	1		2	1	1	SEE SECTION IV		NA	NA
BCIB05	INSTABOND 5 g	1		2	1	1	SEE SECTION IV		NA	NA
BCIB20	INSTABOND 20 g	1		2	1	1	SEE SECTION IV		NA	NA
TCIBG	INSTABOND GEL	1		2	1	1	SEE SECTION IV		NA	NA

<u>Stock Number</u>	<u>Product Name on Label</u>	<u>VOC Content</u>		<u>Flash Point</u>	<u>Vapor Pressure (mm Hg at 20°C)</u>	<u>Evap. Rate (n-Butyl Acetate=1)</u>	<u>Boiling Point</u>	<u>Flammable Limits in %</u>		<u>Autoignition Pt.</u>		
		<u>Pounds/ Gallon</u>	<u>Grams/ Liter</u>	<u>°F</u>	<u>°C</u>		<u>°F</u>	<u>°C</u>	<u>Lower</u>	<u>Upper</u>	<u>°F</u>	<u>°C</u>
BCIBB	INSTABOND BLACK	0	0	>167	>75	<0.2	<0.2	>302	>150	1.7	Unk	-NE-
BCIB05	INSTABOND 5 g	0	0	>167	>75	<0.2	<0.2	>302	>150	1.7	Unk	-NE-
BCIB20	INSTABOND 20 g	0	0	>167	>75	<0.2	<0.2	>302	>150	1.7	Unk	-NE-
TCIBG	INSTABOND GEL	0	0	>167	>75	<0.2	<0.2	>302	>150	1.7	Unk	-NE-

*Abbreviations: > means greater than, NE means Not Established, NA means Not Applicable, Unk means unknown.

SECTION III—HAZARDOUS INGREDIENTS

Ingredient **CAS Number** **Exposure Limits in ppm (parts per million)**

1. Ethyl Cyanoacrylate 7085-85-0 0.2 ppm ACGIH TLV

SECTION IV—PHYSICAL DATA

Evaporation Rate: Unknown **Vapor Density:** Unknown
Solubility in Water: Polymerized by water.
Volatile Solvent Volume %: SEE SECTION II
Approximate Boiling Point: SEE SECTION II
Product Density (water=1): Greater than 1
Appearance and Odor: **BCIBB:** Black liquid, pungent and irritating odor **BCIB05, BCIB20:** Clear, water white liquid, Pungent and irritating odor **TCIBG:** Clear, water white gel, Pungent and irritating odor

SECTION V—FIRE AND EXPLOSION DATA

Flammability Class: Not Applicable
Flash Point (Tag Closed Cup Method): 185°F (85°C)
Approximate Flammable Limits: Unknown
Autoignition Temperature: Unknown
Extinguishing Media: Water, foam, carbon dioxide and dry chemical.
Special Fire Fighting Procedures: When fire fighting, wear full protective equipment including self-contained breathing apparatus.
Unusual Fire and Explosion Hazards: Contact with cotton or wool may result in a reaction that gives off enough heat to cause burns or a fire.

SECTION VI—HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE: Inhalation, Skin contact, Eye contact and Ingestion.
SIGNS AND SYMPTOMS OF EXPOSURE:
INHALATION:

Acute Exposure: Vapors at concentrations above the TLV can irritate the respiratory tract (nose, throat, lungs) causing a burning sensation, runny nose, sore throat, coughing, chest discomfort (tightness).
Chronic Exposure: Unknown

SKIN CONTACT:

Acute Exposure: Contact with the adhesive will bond tissue. Read **NOTES TO PHYSICIAN: MEDICAL TREATMENT FOR BONDING OF HUMAN TISSUE** below.

Chronic Exposure: Unknown

EYE CONTACT:

Acute Exposure: Vapors may irritate the eyes with resulting itching, burning, redness. Contact with the adhesive will bond tissue. Read **NOTES TO PHYSICIAN: MEDICAL TREATMENT FOR BONDING OF HUMAN TISSUE** below.

Chronic Exposure: Unknown

INGESTION:

Acute Exposure: Contact with the adhesive will bond tissue. Read **NOTES TO PHYSICIAN: MEDICAL TREATMENT FOR BONDING OF HUMAN TISSUE** below.

Chronic Exposure: Unknown.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

None specifically known to Crest Industries, Inc. but it is possible that eye, respiratory tract and skin diseases may be aggravated by overexposure to the products on this MSDS.

CARCINOGENICITY: Products not listed by NTP, IARC or OSHA.

SECTION VII—EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Move to an area free from risk of further exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention.

EYE CONTACT: Flush with plenty of water and call a physician.

SKIN CONTACT: Flush with water and soak in warm, soapy water.

INGESTION: See **NOTES TO PHYSICIAN** below.

NOTES TO PHYSICIAN**MEDICAL TREATMENT FOR BONDING OF HUMAN TISSUE:**

Cyanoacrylate adhesive is a very fast setting and strong adhesive. It bonds human tissue including skin in seconds. Experience has shown that accidents due to cyanoacrylates are handled best by passive, non-surgical first aid. Treatment of specific types of accidents is given below.

SKIN ADHESION: First immerse the bonded surfaces in warm soapy water. Peel or roll the surface apart with aid of a blunt edge, e.g. a spatula or a teaspoon handle: then remove adhesive from the skin with soap and water. **Do not try and pull surfaces apart with a direct opposing action.**

EYELID to EYELID or EYELID to EYEBALL ADHESION: 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.**

ADHESIVE ON THE EYEBALL: Cyanoacrylate introduced into the eyes will attach itself to the eye protein and will disassociate itself from it over intermittent periods, generally covering several hours. This will cause periods of weeping until clearance is achieved. During the period of contamination 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.

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 and pull the lips with direct opposing action.** It is almost impossible to swallow cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in ½ to 2 days. In case a lump forms in the mouth, position the patient to prevent ingestion of the lump when it detaches.

BURNS: 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.

SURGERY: It should **never be necessary** to use such a drastic method to separate accidentally bonded skin.

**SECTION VIII-EMPLOYEE PROTECTION
RECOMMENDATIONS**

EYE PROTECTION: Safety glasses with side shields

SKIN PROTECTION: Plastic gloves

VENTILATION AND RESPIRATORY PROTECTION: None when product is used with local exhaust.

OTHER PROTECTIVE MEASURES: Eyewash stations should be available. Educate and train employees in safe use of products. Follow all label instructions.

SECTION IX-REACTIVITY DATA

STABILITY: Stable under normal room conditions.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY (Materials to Avoid): None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

SECTION X-SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED

OR SPILLED: Flood area with water to cure (harden) cyanoacrylate ester and to control product vapors. Scrape up cured product.

WASTE DISPOSAL METHOD: This product, if disposed as shipped, is not a hazardous waste as specified in 40 CFR261. Dispose of in an approved landfill in accordance with state and local regulations.

RCRA STATUS: Not Applicable

**SECTION XI-SPECIAL PRECAUTIONS AND
STORAGE DATA**

STORAGE TEMPERATURE

MINIMUM / MAXIMUM: 50°F (10°C) / 120°F (49°C)

RECOMMENDED SHELF LIFE: One year

PRECAUTIONS TO BE TAKEN IN HANDLING, STORAGE AND USE: No special precautions

KEEP OUT OF THE REACH OF CHILDREN!

SECTION XII-ENVIRONMENTAL PROTECTION AGENCY (EPA) REGULATORY INFORMATION

The following percentage table is to be used to meet Environmental Protection Agency (EPA) Regulations: 40 CFR Part 370 Emergency and Hazardous Chemical Inventory Forms and Community Right-to-Know Reporting Requirements.

HAZARDOUS INGREDIENTS IN INSTABOND—PERCENTAGES BY WEIGHT

<u>Ingredients (Chemicals)</u>	<u>CAS Number</u>	<u>BCIBB</u>	<u>BCIB05</u>	<u>BCIB20</u>	<u>TCIBG</u>
1. Ethyl Cyanoacrylate	7085-85-0	>80	>98	>98	>90

SECTION XIII-CALIFORNIA PROPOSITION 65 WARNINGS

NONE

SECTION XIV-OZONE DEPLETION IN THE UPPER ATMOSPHERE

No chemicals which destroy ozone in the upper atmosphere are present in the products on this MSDS.

DISCLAIMER: The information contained in this MSDS is believed to be accurate and reliable as of the date indicated. **Crest Industries, Inc.** assumes no legal responsibility and makes no representation, warranty or guarantee, expressed or implied, as to the completeness or accuracy of the information. It is offered solely for your consideration, investigation and verification. The user is ultimately responsible for the safe use of the material in accordance with applicable federal, state, provincial and local laws and regulations.