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# MATERIAL SAFETY DATA SHEET

I NAME

Part No. 9-1C, 9-2C

PRODUCT TRADE NAME: Super Glue	<i>BRAVO#</i>	HAZARD RATING LEAST 0 SLIGHT 1 MODERATE 2 HIGH 3 EXTREME 4	HEALTH 2
CHEMICAL/ SYNONYMS: ETHYL CYANOACRYLATE/SUPER GLUE	<i>91009</i>		FIRE 1
CHEMICAL FAMILY: 2-CYANOACRYLATE MONOMER			REACTIVITY 2

SHIPPING CLASS:	DOT: Adhesive, combustible liquid	TSCA INVENTORY:	YES <input type="checkbox"/>	NO <input type="checkbox"/>
	U.N.: Non-restricted		<input checked="" type="checkbox"/>	<input type="checkbox"/>

## II HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT	CAS NO.	%	HAZARD DATA
Ethyl-2-cyanoacrylate	7085-85-0	95	TLV-TWA 2ppm*
*Estimate—Based on data for Methyl-2-cyanoacrylate. ACGIH 1983			

## III PHYSICAL DATA

APPEARANCE-ODOR Transparent liquid, irritating odor		VISCOSITY 100 cps	
MELTING OR FREEZING POINT NA	BOILING POINT 140°F @ 3mmHg	VAPOR PRESSURE (mm Hg) 0.3 @ 68°F	VAPOR DENSITY (AIR = 1) greater than 1
SOLUBILITY IN WATER polymerizes in water	PERCENT VOLATILE (BY WEIGHT) Nil	SPECIFIC GRAVITY (WATER = 1) 1.05 @ 68°F	EVAPORATION RATE (BUTYL ACETATE = 1) NA

## IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Setaflesh 167°F - Closed Cup	AUTO IGNITION TEMPERATURE Not determined	LOWER EXPLOSION LIMIT (M) NA	UPPER EXPLOSION LIMIT (M) NA
EXTINGUISHING MEDIA <input type="checkbox"/> FOAM <input type="checkbox"/> ALCOHOL FOAM <input checked="" type="checkbox"/> CO <sub>2</sub> <input checked="" type="checkbox"/> DRY CHEMICAL <input checked="" type="checkbox"/> WATER FOAM <input type="checkbox"/> OTHER *If resulting polymerization will not be hazardous.			
SPECIAL FIRE FIGHTING PROCEDURES Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes or inhalation of vapors. Over exposure to decomposition products may cause a health hazard.			
UNUSUAL FIRE AND EXPLOSION HAZARDS Cloths used to wipe up spills may cause rapid polymerization that could result in auto-ignition. See Section VII.			

EFFECTS OF OVEREXPOSURE Immediate bonding of skin, eyes or mouth may result upon contact.  
Vapors are irritating to mucous membranes and the upper respiratory tract.

ACUTE OVEREXPOSURE Same as above.

CHRONIC OVEREXPOSURE Not known.

EMERGENCY AND FIRST AID PROCEDURES Flush with plenty of water—then remove cured adhesive with hot, soapy water. Do not mechanically remove adhesive.

SKIN Hold lid open and immediately flush with plenty of water—get medical attention. Vapors  
EYES are lachrymatory.

INHALATION: Remove to fresh air—give artificial respiration or oxygen if necessary—get medical attention.

INGESTION: Immediate bonding of skin or mouth will result upon contact—get medical attention immediately.

NOTES TO PHYSICIAN:

Cyanoacrylates cure instantly on skin and in eyes. Cured adhesive is not corrosive. It does not bond well to surface of the eye.

### VI REACTIVITY DATA

STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE	CONDITIONS TO AVOID <u>High humidity, high temperatures, alkaline materials and their combinations, including water.</u>
HAZARDOUS DECOMPOSITION PRODUCTS <u>CO<sub>2</sub>, CO, Oxides of Nitrogen, and other unknown hydrocarbons.</u>	
HAZARDOUS POLYMERIZATION <input checked="" type="checkbox"/> MAY OCCUR <input type="checkbox"/> WILL NOT OCCUR	CONDITIONS TO AVOID <u>Contamination of adhesive with alkaline materials, peroxides or water can result in rapid polymerization with an uncontrollable rise in temperature and a buildup of pressure in a closed container.</u>
INCOMPATIBILITY (MATERIALS TO AVOID) <input checked="" type="checkbox"/> WATER <input checked="" type="checkbox"/> OTHER See above	

### VII SPILL OR LEAK PROCEDURE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Small spills: wipe up with cloth. Immediately soak cloth with water to polymerize adhesive. Caution: Cloth containing adhesive may undergo auto-ignition if not soaked with water. Large spills: flood area with water. When cured, remove cured film with a scraper. Wear NIOSH approved respirator for organic vapors or self-contained breathing apparatus, if needed, and protective clothing.

WASTE DISPOSAL METHODS

Incinerate, or solid adhesive can be landfilled in accordance with all applicable Federal, State, and Local environmental regulations. Do not pour down the drain.

### VIII SPECIAL PROTECTION INFORMATION

VENTILATION TYPE <u>Local exhaust should be used to control vapors in work area below specified TLV.</u>	
RESPIRATORY PROTECTION <u>Under normal use, not needed. See Section VII for spills.</u>	
PROTECTIVE GLOVES <u>Polyethylene gloves</u>	EYE PROTECTION <u>Do not wear rubber or cloth gloves. Safety glasses must be worn.</u>
OTHER PROTECTIVE EQUIPMENT <u>Eye bath and washing facilities should be nearby.</u>	

### IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING <u>Store in cool and dry place. Keep away from heat or open flame. Use with adequate ventilation. Avoid contact with skin, eyes or clothing.</u>
OTHER INFORMATION <u>Keep out of reach of children.</u> <u>Read instructions carefully.</u>

Prepared by <u>Ron Costello</u>	Prepared by <u>Chemist</u>	DATE OF ISSUE <u>3/22/85</u>	SUPERSEDES
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