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MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet (MSDS) is provided as a courtesy in response to a customer request. When used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may

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I. PRODUCT IDENTIFICATION

Product Name	Bulldog Security Kit
Product Part Number	F8E500
Product UPC	7-22868-13107-7
Issue Date	July 28, 2000

II. PHYSICAL DATA ON NON-WOVEN FIBER

Composition	100% VIS
Weight +/-10%	45 g/m ²
Thickness +/-10%	0.43 mm
Density	> 65
Absorption Capacity	960%
Ether Soluble Substances	0.0011, < 30%
Water Soluble Substances	0.003, < 0.70
Tissue Implatation	Pass (British STND 1990)
Skin Irritation	Pass (British STND 5736)

III. PHYSICAL DATA ON CLEANING SOLUTION

Cleaning Solution		Isopropyl Alcohol, Pure Water, Anti-Static	
Boiling Point 760 MM HG	82.3° C	Melting Point	-86° C
Specific Gravity (H ₂ O-1)	0.786	Vapor Pressure	33 mm
Vapor Density (Air-1)	2.1	Solubility in H ₂ O by Wt.	100
% Volatiles by Volume	1	Evaporation Rate (Butylacetate-1)	2.2
Appearance and Odor		Slight odor resembling that of a mixture of ethanol and acetone. Slightly bitter in taste (not potable!)	

IV. PHYSICAL DATA ON GLUE

Product Name	Bulldog Adhesive Glue
Product	Ethyl Cyanoacrylate Adhesive

Ingredients	CAS No.	
Ethyl Cyanoacrylate	7085-85-0	84.5-85.4
Poly Methyl Methacrylate (PMMA)	9011-14-7	14.5
Hydroquinone	123-31-9	0.1-1

Solubility in Water	Polymerized in water
Specific Gravity	1.05 at 75° F
Boiling Point	More than 300° F or 54~56° 3.6-3 MMHG
Flash Point	160-200°
Volatile Organic Compound (EPA Method 24)	94.7%; 994.35 G/L
Evaporation Rate (Ehter=1)	Not Available
Appearance	Clear Liquid
Odor	Sharp, Irritating
Vapor Pressure	Less than 0.2MM at 75° F
Vapor Density	3

Ingredients Which Have Exposure Limits			
Exposure Limits (TWA)	ACGIH	OSHA	Other
Ingredients	(TLV)	(TLV)	
Ethyl Cyanocrylate	None	None	2 PPM TWA 9.1 MG/M3
Hydroquinone	2 MG/M3 TWA	2 MG/M3 TWA	2 MG/M3 TWA

V. HAZARDOUS INGREDIENTS OF CLEANING SOLUTION

Material of Component	%	Hazard Data
Isopropyl Alcohol	60	Flammable
Pure Water	30	N/A
Anti-Static	10	N/A

VI. HAZARDOUS INGREDIENTS OF GLUE

Estimated NFPA Code			
Health Hazard	2	Reactivity Hazard	2
Fire Hazard	2	Specific Hazard	No Water

Estimated HMIS Code			
Health Hazard	2	Reactivity Hazard	2
Fire Hazard	2		

Explosive Limits:	(% By Volume in Air) - Lower	Not Available
	(% By Volume in Air) - Higher	Not Available

Recommended Extinguishing Agent	Carbon Dioxide, Foam, Dry Chemical	
Hazardous Products Formed by Fire or Thermal Decomposition	Irritating organic fragments	
Unusual Fire Exposure	None	
Hazards:	Compressed Gases:	None
	Pressure at Room Temperature:	N/A

VII. HEALTH HAZARD DATA ON CLEANING SOLUTION

Physical Contact	Effects of Overexposure	Suggest First Aid	Precautionary Info
Eye	Mild eye irritation: signs/symptoms can include redness, swelling, pain and tearing.	Immediately flush eyes with large amounts of water. If irritation persists, get immediate medical attention.	Avoid eye contact.
Skin	Mild skin irritation (after prolonged contact): signs/symptoms can include redness, swelling and itching.	Flush skin with large amounts of water. If irritation persists, get immediate medical attention.	Avoid prolonged skin contact.
Inhalation	<p>Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.</p> <p>Irritation (upper respiratory): signs/symptoms can include soreness of nose and/or throat, coughing and sneezing</p>	If signs/symptoms occur, remove person to fresh air. If sign/symptoms continue, call a physician.	Avoid breathing of vapors. Use in well ventilated areas.
Ingestion	Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus and blood in feces.	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.	Product is not intended to be eaten or smoked.

	<p>Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue, blurred vision, slurred speech, giddiness, tremors and convulsions.</p> <p>Aspiration Pneumonitis: signs/symptoms can include coughing, difficulty breathing, wheezing, coughing up blood and pneumonia. Can be fatal.</p>		
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VIII. HEALTH HAZARD DATA ON GLUE

Physical Contact	Effects of Overexposure	Suggest First Aid	Precautionary Info
Eye	Vapor can cause irritation. Prolonged or repeated overexposure to vapors may result in an allergic reaction or asthma-like symptoms.	If signs/symptoms occur, remove person to fresh air. If sign/symptoms continue, call a physician.	Avoid eye contact. Wear safety glasses.
Skin	Any physical exposure will result in glue bonding to skin immediately.	Get immediate medical attention.	Avoid skin contact. Wear polyethylene glove. Do not use cotton gloves.
Inhalation	<p>Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.</p> <p>Irritation (upper respiratory): signs/symptoms can include soreness of nose and/or throat, coughing and sneezing</p>	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.	Avoid breathing of vapors. Use in well ventilated areas.
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IX. ADDITIONAL PRECAUTIONARY INFO

1. Store in a cool place
2. Flammable, keep away from flame
3. Do not apply on food, food container or self
4. Always keep the cap closed.