

LOCTITE CORPORATION

10/20/98

ROCKY HILL, CONNECTICUT 06067
EMERGENCY PHONE: (860) 571-5100

MATERIAL SAFETY DATA SHEET

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Blair(R) Maximum Strength Spray Adhesive
82489

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Item No.: 82489
Product Type: Aerosol sealant

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
PROPANE	74-98-6	16
BUTANE	106-97-8	8
n-HEPTANE	142-82-5	30
ACETONE	67-64-1	24

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
PROPANE	2500 ppm	1000 ppm 1800 mg/m3	None
BUTANE	800 ppm TWA 1900mg/M3	800 ppm TWA 1900mg/M3	None
n-HEPTANE	400 ppm TWA 1640 mg/M3	500 ppm TWA 1600 mg/M3	None
ACETONE	500 ppm TWA 1188 mg/m3	750 ppm TWA 1800 mg/m3	None
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	
PROPANE	Asphyxiant	Asphyxiant	
n-HEPTANE	500 ppm 2050 mg/M3	500 ppm 2000 mg/M3	
ACETONE	750 ppm 1782 mg/m3	1000 ppm 2400 mg/m3	

3. HAZARDS IDENTIFICATION

Toxicity: Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Primary Routes of Entry: Exposure may be by inhalation and/or skin or eye

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3. HAZARDS IDENTIFICATION (continued)

contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

Signs and Symptoms of Exposure: Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

Existing Conditions Aggravated by Exposure: None generally recognized.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
PROPANE	CAR CNS IRR	NO	NO	NO
BUTANE	CAR CNS IRR	NO	NO	NO
n-HEPTANE	CNS IRR	NO	NO	NO
ACETONE	AC4 BLO CNS IRR	NO	NO	NO

Abbreviations

AC4 ACGIH-Unclassifiable as human carc. BLO Blood
 CAR Cardiac CNS Central nervous system
 IRR Irritant

4. FIRST AID MEASURES

Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting. Give conscious patient several glasses of water. Seek medical attention

Inhalation: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

Skin Contact: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before reuse.

Eye Contact: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: -20°F Method: Tag closed cup
 Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical

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5. FIRE FIGHTING MEASURES (continued)

Special Firefighting Procedures:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool containers to prevent pressure build up and possible autoignition or explosion when exposed to extreme heat.

Hazardous Products formed by Fire or Thermal Decomp Unusual Fire or Explosion Hazards:

Carbon Dioxide, Carbon Monoxide.

Explosion Hazards:

Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Explosive Limits:

(% by volume in air)Lower 1.1%
 (% by volume in air)Upper 12.8%

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak:

Remove all sources of ignition. Maintain good ventilation. Soak up with an inert absorbent. Store in a closed container until disposal.

7. HANDLING AND STORAGE

Safe Storage:

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

(Contact Loctite Customer Handling:

Service 1-800-243-4874 for shelf life information) Keep away from heat, sparks or open flame. Vapors will accumulate readily and may ignite explosively. Keep area ventilated. Do not smoke. Extinguish all flames, pilot lights, and heaters. Turn off stoves, electric tools and appliances, and other sources of ignition. Consult NFPA Code. Use approved bonding and grounding procedures. Do not puncture, incinerate, or expose to temperature above 120°F. Heat from sunlight radiators, stoves, hot water, and other heat sources could cause container to burst. Do not

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7. HANDLING AND STORAGE

(continued)

take internally. Keep out of the reach of children. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Wash hands after using.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Wear safety spectacles with unperforated sideshields.

Skin: None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves

Ventilation: Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

Respiratory: If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Milky white viscous liquid.

Odor: Solvent

Boiling Point: Range: Less than 0°F to 212°F.

pH: Does not apply

Solubility in Water: Not available

Specific Gravity: 0.70

Volatile Organic Compound (EPA Method 24) 53.6%; 375 grams per liter of material

Vapor Pressure: Not available

Vapor Density: Heavier than air.

Evaporation Rate (Ether = 1) Faster

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibility: None Known

Conditions to Avoid: Not available

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10. STABILITY AND REACTIVITY

(continued)

Hazardous Decomposition Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal:

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State & Local regulations regarding pollution.

EPA Hazardous Waste Number

D002 per 40 CFR 261.21

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Consumer Commodity

Hazard Class or

Division: ORM-D

Identification Number: None

Marine Pollutant: None

IATA

Proper Shipping Name: Consumer Commodity (Not more than 500 ml);
Aerosols, flammable n.o.s. (More than 500 ml)

Class or Division: Class 9 (Not more than 500 ml);

Division 2.1 (More than 500 ml)

UN or ID Number: ID 8000 (Not more than 500 ml);

UN 1950 (More than 500 ml)

15. REGULATORY INFORMATION

CA Proposition 65:

WARNING: This product contains a chemical known to the State of California to cause cancer. Trace amounts of formaldehyde benzene & acetaldehyde

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16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 1

Fire Hazard: 4

Reactivity Hazard: 0

Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 1

Flammability Hazard: 4

Reactivity Hazards: 0

Personal Protection: See Section 8.

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HMS is a registered trademark of the National Paint and Coatings Assn.

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