

MATERIAL SAFETY DATA SHEET

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I. PRODUCT IDENTIFICATION

Product Name: Permatex(R) All Purpose Spray Adhesive
 Item No.: 82019
 Part No.: 118DA
 Product Type: Aerosol adhesive

II. COMPOSITION

Ingredients	CAS No.	%
n-HEXANE*	110-54-3	50-55
DIMETHYL ETHER	115-10-6	25-30
Non-hazardous ingredients	Proprietary	20-25

* This component is listed as a SARA Section 313 Toxic Chemical.

III. CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure: Not available
 Vapor Density: More than 1 (base only)
 Solubility in Water: Not available
 Specific Gravity: 0.72 (Base only)
 Boiling Point: Range: Less than 0°F to 156°F.
 Volatile Organic Compound (EPA Method 24) 79.25%; 571 grams per liter of material (Less federally exempt solvents)
 Evaporation Rate (Ether = 1) Faster
 pH: Does not apply
 Appearance: Not available
 Odor: Solvent

IV. FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash Point: Less than 0°F (Propellant) Method: Tag closed cup
 Estimated NFPA Code:
 Health Hazard: 2
 Fire Hazard: 4
 Reactivity Hazard: 0
 Specific Hazard: Does not apply
 Estimated HMIS Code:
 Health Hazard: 2*
 Flammability Hazard: 4
 Reactivity Hazard: 0
 Personal Protection: See Section X.
 Explosive Limits:
 (% by volume in air) Lower 1.2%
 (% by volume in air) Upper 27.0%
 Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical
 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 Decomposition: Irritating organic vapors; oxides of carbon.
 Unusual Fire or 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.
 Compressed Gases: Dimethyl ether
 Pressure at Room Temp.: Not available

V. SPILL OR LEAK AND DISPOSAL PROCEDURES

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.
 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 hazardous waste

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V. SPILL OR LEAK AND DISPOSAL PROCEDURES (continued)

numbers. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

VI. STORAGE AND HANDLING PROCEDURES

Safe Storage: Keep away from heat, sparks, and open flame.
 (Contact Loctite Customer Service 1-800-243-4874 for shelf life information)
 Handling: Keep away from heat, sparks or open flame. Vapors will accumulate readily and may ignite explosively. Keep away from eyes. Avoid breathing of vapor and mists. Avoid skin contact. During use and until all vapors are gone: 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 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.

VII. SHIPPING REGULATIONS

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 2.2 (More than 500 ml)
 UN or ID Number: ID 8000 (Not more than 500 ml); UN 1950 (More than 500 ml)

VIII. REACTIVITY DATA

Stability: Stable
 Hazardous Polymerization: Will not occur.
 Hazardous Decomposition Products (non-thermal): None
 Incompatibility: None

IX. EMERGENCY TREATMENT PROCEDURES

Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting. Give 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.

X. PERSONAL PROTECTION

Eyes: Wear safety spectacles with unperforated sideshields.
 Skin: Chemical resistant gloves.
 Ventilation: Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to DSHA Standards 1910.94, 1910.107, 1910.108. 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 II.

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XI. HEALTH HAZARD DATA

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. Prolonged overexposure to hexane may cause damage to nerve tissue of the arms and legs (peripheral neuropathy), resulting in muscular weakness and loss of sensation. This effect may be increased by the presence of methyl ethyl ketone. Exposure may be by inhalation and/or skin or eye contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

Primary Routes of Entry:

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.

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
n-HEXANE	50 ppm TWA 176mg/M3	50 ppm TWA 180mg/M3	None
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	

Ingredients for which no Exposure Limits have been established are not listed above.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
n-HEXANE	DEV IRR NER REP	NO	NO	NO
DIMETHYL ETHER	CNS IRR	NO	NO	NO
Non-hazardous ingredients	No Data	NO	NO	NO

Abbreviations

CNS Central nervous system
 IRR Irritant
 REP Reproductive
 DEV Developmental
 NER Nervous System

XII. PREPARATION INFORMATION

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