

----- MATERIAL SAFETY DATA SHEET -----

Loctite

ADHESIVE, 380 NSF(R) RETAINING COMPOUND HIGH STRENGTH

MANUFACTURER: LOCTITE CORPORATION  
 1001 TROUT BROOK CROSSING  
 ROCKY HILL, CT 06067-3910  
 EMERGENCY PHONE: (860) 571-5100  
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N,N-Dialkyl-toluidines	No Data	No	No	No
MALEIC ACID	IRR	No	No	No
SACCHARIN	No Data	Yes	2B	No

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 380 NSF(R) RETAINING COMPOUND HIGH STRENGTH  
 ITEM NO.: 68035  
 PART NO.: 22219/22220  
 PRODUCT TYPE: Anaerobic

ABBREVIATIONS:  
 2B: Possibly carcinogenic to humans  
 CNS: Central nervous system  
 ALG: Allergen  
 COR: Corrosive  
 MUT: Mutagen

Ingredients	CAS No.	%
Aromatic dimethacrylate ester	24448-20-2	40-45
Hydroxyalkyl methacrylate	27813-02-1	30-35
Bisphenol A fumarate resin	39382-25-7	15-20
CUMENE HYDROPEROXIDE*	80-15-9	1-3
1-Acetyl-2-phenylhydrazine	114-83-0	0.1-1
N,N-Dialkyltoluidines	613-48-9	0.1-1
MALEIC ACID	110-16-7	0.1-1
SACCHARIN	81-07-2	0.1-1

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

4. FIRST AID MEASURES

INGESTION: Do not induce vomiting. Keep individual calm. Obtain medical attention.  
 INHALATION: Does not apply.  
 SKIN CONTACT: Wash with soap and water.  
 EYE CONTACT: Flush at least 15 minutes with water. Obtain medical attention.

INGREDIENTS WHICH HAVE EXPOSURE LIMITS:

Exposure Limits (TWA)	ACGIH (TLV)	OSHA (PEL)	OTHER
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Hydroxyalkyl methacrylate	None	None	1 ppm TWA 3 ppm STEL
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5. FIRE FIGHTING MEASURES

FLASH POINT: More than 200 deg F  
 METHOD: Tag Closed Cup  
 RECOMMENDED EXTINGUISHING AGENTS: Carbon dioxide, foam, dry chemical  
 SPECIAL FIREFIGHTING PROCEDURES: Not available  
 HAZARDOUS PRODUCTS FORMED BY FIRE OR THERMAL DECOMP: Irritating organic vapors  
 UNUSUAL FIRE OR EXPLOSION HAZARDS: None  
 EXPLOSIVE LIMITS:  
 (% BY VOLUME IN AIR) LOWER: Not available  
 (% BY VOLUME IN AIR) UPPER: Not available

Exposure Limits (STEL)	ACGIH (TLV)	OSHA (PEL)
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Ingredients

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK: Maintain adequate ventilation.  
 Soak up in an inert absorbent. Store in partly filled, closed container until disposal.

3. HAZARDS IDENTIFICATION

TOXICITY: Severe eye irritant. Moderate skin irritant. Possible inhalation irritant. May be harmful if swallowed.  
 PRIMARY ROUTES OF ENTRY: Skin, eyes, inhalation, ingestion  
 SIGNS AND SYMPTOMS OF EXPOSURE: May cause severe dermatitis on prolonged contact in sensitive individuals.  
 EXISTING CONDITIONS AGGRAVATED BY EXPOSURE: None known

7. HANDLING AND STORAGE

SAFE STORAGE: Store below 100 deg F.  
 (CONTACT LOCTITE CUSTOMER SERVICE 1-800-243-4874 FOR SHELF LIFE INFORMATION)  
 HANDLING: Avoid prolonged skin contact. Keep away from eyes. Do not breathe vapors.

Ingredients	Literature Referenced Target Organ and Other Health Effects				Carcinogen		
	ALG	IRR	MUT	IRR	NTP	IARC	OSHA
Aromatic dimethacrylate ester	ALG	IRR			No	No	No
Hydroxyalkyl methacrylate	ALG	IRR			No	No	No
Bisphenol A fumarate resin	ALG	IRR			No	No	No
CUMENE HYDROPEROXIDE	ALG	CNS	COR	IRR	No	No	No
1-Acetyl-2-phenylhydrazine	ALG				No	No	No

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

EYES: Safety glasses or goggles.  
 SKIN: Rubber or plastic gloves.  
 VENTILATION: Sufficient to maintain vapor concentration below TLV.  
 RESPIRATORY: NIOSH approved respirator if ventilation is inadequate.  
 See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Green Liquid  
 ODOR: Mild  
 BOILING POINT: More than 300 deg F  
 pH: Does not apply  
 SOLUBILITY IN WATER: Slight  
 SPECIFIC GRAVITY: 1.11 at 80 deg F  
 VOLATILE ORGANIC COMPOUND (EPA METHOD 24): 38.4%; 426 grams per liter

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VAPOR PRESSURE: Less than 5 mm at 80 deg F  
VAPOR DENSITY: Not available  
EVAPORATION RATE (ETHER = 1): Not available

TITLE: Research Chemist; Safety, Health & Regulatory Affairs  
COMPANY: LOCTITE CORP., 1001 TR BR CR, ROCKY HILL CT 06067  
(24 HR) PHONE: (860) 571-5100  
REVISION DATE: August 03, 1998  
REVISION: 0028

10. STABILITY AND REACTIVITY

STABILITY: Stable  
HAZARDOUS POLYMERIZATION: Will not occur  
INCOMPATIBILITY: None  
CONDITIONS TO AVOID: Not available  
HAZARDOUS DECOMPOSITION PRODUCTS (NON-THERMAL): None

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11. TOXICOLOGICAL INFORMATION

Oral LD50 more than 10000 mg/kg.  
Estimated dermal LD50 more than 2000 mg/kg.

COMPAS Code: 25010321

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

RECOMMENDED METHODS OF DISPOSAL: Incinerate following EPA and local regulations  
EPA HAZARDOUS WASTE NUMBER: NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172):  
DOMESTIC GROUND TRANSPORT PROPER SHIPPING NAME: Unrestricted  
HAZARD CLASS OR DIVISION: Unrestricted  
IDENTIFICATION NUMBER: None  
MARINE POLLUTANT: None

IATA:  
PROPER SHIPPING NAME: Unrestricted  
CLASS OR DIVISION: Unrestricted  
UN OR ID NUMBER: None

15. REGULATORY INFORMATION

CA PROPOSITION 65: WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.  
Propylene oxide (ppb levels of Arsenic, CD, Pb, Ni).  
This product contains Saccharin. No Prop65 hazard warning is necessary if this product is used as reasonably anticipated.

16. OTHER INFORMATION

ESTIMATED NFPA (R) CODE:  
HEALTH HAZARD: 1  
FIRE HAZARD: 1  
REACTIVITY HAZARD: 1  
SPECIFIC HAZARD: Does not apply  
ESTIMATED HMIS (R) CODE:  
HEALTH HAZARD: 1\*  
FLAMMABILITY HAZARD: 1  
REACTIVITY HAZARD: 1  
PERSONAL PROTECTION: See Section 8

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PREPARED BY: Stephen Repetto