

LOCTITE CORPORATION

07/02/97

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

MATERIAL SAFETY DATA SHEET

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Various
3101 Adhesive
19860

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: 3101 Adhesive
Item No.: 19860
Product Type: UV Adhesive

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Polyurethane methacrylate resin	Proprietary	25-30
High boiling acrylate	5888-33-5	20-25
Cellulose ester	9004-36-8	10-15
Hydroxyalkyl methacrylate	868-77-9	10-15
High boiling methacrylate	7534-94-3	5-10
Modified acrylamide	2680-03-7	5-10
Photoinitiator	75980-60-8	3-5
CUMENE HYDROPEROXIDE*	80-15-9	1-3
Hydroxyalkyl methacrylate	27813-02-1	1-3
Silane derivative	2768-02-7	1-3
1-Acetyl-2-phenylhydrazine	114-83-0	0.1-3
SACCHARIN	81-07-2	0.1-3

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

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Hydroxyalkyl methacrylate	None	None	3 ppm ceiling
Hydroxyalkyl methacrylate	None	None	3 ppm ceiling
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	

3. HAZARDS IDENTIFICATION

Toxicity: Eye, skin, and inhalation irritant. Eye irritation may be severe. May be harmful if swallowed. May cause liver or kidney disease.

Primary Routes of Entry: Dermal, eye contact, skin absorption, inhalation, ingestion.

Signs and symptoms of Exposure: Irritation of eyes, skin, or respiratory tract. Headache, nausea, dizziness.

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3. HAZARDS IDENTIFICATION

(continued)

Existing Conditions

Aggravated by Exposure: Systemic diseases.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Polyurethane methacrylate resin	No Data	NO	NO	NO
High boiling acrylate	ALG IRR	NO	NO	NO
Cellulose ester	No Data	NO	NO	NO
Hydroxyalkyl methacrylate	ALG IRR	NO	NO	NO
High boiling methacrylate modified acrylamide	ALG IRR No Data	NO	NO	NO
Photoinitiator	No Data	NO	NO	NO
CUMENE HYDROPEROXIDE	ALG CNS COR IRR MUT	NO	NO	NO
Hydroxyalkyl methacrylate	ALG IRR	NO	NO	NO
Silane derivative	IRR	NO	NO	NO
1-Acetyl-2-phenylhydrazine	ALG	NO	NO	NO
SACCHARIN	No Data	YES	2B	NO

Abbreviations

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

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.

Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: Wash with soap and water.

Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: 166°F Method: Tag Closed Cup

Recommended

Extinguishing Agents: Carbon dioxide, foam, dry chemical
Hazardous Products formed
Fire or Thermal Decomp Oxides of carbon and nitrogen and possibly phosphorous.

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5. FIRE FIGHTING MEASURES

(continued)

Unusual Fire or Explosion Hazards: Violent rupture of containers may result from uncontrolled polymerization caused by the high temperatures of fires.

Explosive Limits:
(% by volume in air) Lower Not available
(% by volume in air) Upper Not available

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Eliminate sources of ignition. Soak up with an inert absorbent. Store in a half filled, closed container until disposal.

7. HANDLING AND STORAGE

Safe Storage: Store below 100°F
(Contact Loctite Customer Service 1-800-243-4874 for shelf Life information)
Handling: Avoid eye and skin contact. Avoid breathing vapors. Keep away from sources of ignition.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
Skin: Rubber or plastic gloves.
Ventilation: Sufficient to maintain vapor concentration below TLV.

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear to slightly hazy, pale yellow liquid
Odor: Mild

Boiling Point:	More than 200°F
pH:	Does not apply
Solubility in Water:	Not available
Specific Gravity	1.066
Volatile Organic Compound (EPA Method 24)	56.9%; 595 grams per liter
Vapor Pressure:	Not available
Vapor Density:	Not available
Evaporation Rate (Ether = 1)	Not available

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10. STABILITY AND REACTIVITY

Stability: Stable
 Hazardous Polymerization: Will not occur
 Incompatibility: Strong oxidizers, peroxides, copper and alloys, carbon steel, iron, rust, strong acids, bases, and other polymerization initiators. These incompatibilities do not preclude the use of this product as an adhesive for any substrate mentioned above; however, this product should not be stored in a container composed in whole or in part of these substrates. See Technical Data Sheet for any restrictions other than incompatibility.
 Conditions to Avoid: Not available
 Hazardous Decomposition Products (non-thermal): Dimethylamine

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal:
 A Hazardous Waste Number: Incinerate following EPA and local regulations.
 NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Unrestricted (Not more than 450 liters);
Combustible liquids, n.o.s.
(Contains N,N-Dimethylacrylamide)
(More than 450 liters)

Hazard Class or

Division: Unrestricted (Not more than 450 liters);
Combustible liquid (More than 450 liters)

Identification Number: None (Not more than 450 liters);
NA 1993 (More than 450 liters)

Marine Pollutant: None

IATA

Proper Shipping Name: Unrestricted

Class or Division: Unrestricted

UN or ID Number: None

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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.
Ethylene oxide, toluene diisocyanate,
acetaldehyde, dioxane

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: 2
Fire Hazard: 2
Reactivity Hazard: 1
Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 2*
Flammability Hazard: 2
Reactivity Hazards: 1
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.

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