

Material Safety Data Sheet



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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	LiteTak(R) 3751 Adhesive	IDH number:	135322
Product type:	Ultraviolet adhesive	Item number:	21363
		Region:	United States
Company address:	Contact information:		
Henkel Corporation	Telephone: 860.571.5100		
1001 Trout Brook Crossing	Emergency telephone: 860.571.5100		
Rocky Hill, Connecticut 06067	Internet: www.henkelna.com		

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state:	Liquid	HEALTH:	*2
Color:	Clear to slightly hazy, Yellow, Light amber	FLAMMABILITY:	2
Odor:	Mild, Ester-like, Amine-like	PHYSICAL HAZARD:	1
		Personal Protection:	See MSDS Section 8

WARNING: COMBUSTIBLE LIQUID AND VAPOR.
HARMFUL IF SWALLOWED, ABSORBED THROUGH SKIN OR INHALED.
DO NOT SPRAY. DO NOT HEAT.
MAY CAUSE ALLERGIC SKIN REACTION.
CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

Inhalation:	Modified acrylamide is harmful if inhaled. Causes respiratory tract irritation. Vapors and mists will irritate nose and throat and possibly eyes. Headache. Nausea. DO NOT heat or spray as this increases the inhalation hazard.
Skin contact:	Modified acrylamide may be absorbed through skin in harmful amounts. Toxic. May cause allergic skin reaction. Causes skin irritation.
Eye contact:	Contact with eyes will cause irritation.
Ingestion:	Modified acrylamide is harmful if swallowed. Toxic.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Acrylate oligomer	Unknown	30 - 60
Modified acrylamide	2680-03-7	10 - 30
Substituted hydroxyalkyl methacrylate	Proprietary	10 - 30
Trimethylolpropane polyoxyethylene triacrylate	28961-43-5	5 - 10
Acrylate ester	7328-17-8	5 - 10
Photoinitiator	24650-42-8	1 - 5
Ethyl-4-dimethylaminobenzoate	10287-53-3	1 - 5
Silica, amorphous, fumed, crystal-free	112945-52-5	1 - 5
Methanol	67-56-1	0.1 - 1
Ethylene glycol	107-21-1	0.1 - 1

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Skin contact:	Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. If symptoms develop and persist, get medical attention.
Eye contact:	Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. Get immediate medical attention.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Keep individual calm. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

Flash point:	87.2 °C (188.96 °F) Tagliabue closed cup
Autoignition temperature:	Not available
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Extinguishing media:	Foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	None expected.
Hazardous combustion products:	Oxides of carbon. Oxides of nitrogen. Irritating organic vapours. Toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Remove all sources of ignition. Do not allow product to enter sewer or waterways.
Clean-up methods:	Ensure adequate ventilation. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not taste or swallow. DO NOT heat or spray. Use only in area provided with appropriate exhaust ventilation. Refer to Section 8.

Storage: For safe storage, store at or below 26 °C (78.8 °F)
Keep in a cool, well ventilated area away from heat, sparks and open flame.
Keep container tightly closed until ready for use.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Acrylate oligomer	None	None	None	None
Modified acrylamide	None	None	None	0.1 mg/m ³ TWA (Skin) 0.025 ppm TWA (Skin)
Substituted hydroxyalkyl methacrylate	None	None	None	None
Trimethylolpropane polyoxyethylene triacrylate	None	None	None	None
Acrylate ester	None	None	None	None
Photoinitiator	None	None	None	None
Ethyl-4-dimethylaminobenzoate	None	None	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m ³ TWA Inhalable dust. 3 mg/m ³ TWA Respirable fraction. 6 mg/m ³ TWA	20 MPPCF TWA 0.8 mg/m ³ TWA	None	None
Methanol	200 ppm TWA 250 ppm STEL (SKIN)	200 ppm (260 mg/m ³) TWA	None	None
Ethylene glycol	100 mg/m ³ Ceiling Aerosol.	None	None	None

Engineering controls: Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s). If this material is handled at elevated temperatures or under mist forming conditions, without engineering controls, a NIOSH approved respirator must be used.

Eye/face protection: Safety goggles or safety glasses with side shields. Wear chemical goggles; face shield (if splashing is possible).

Skin protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact. Neoprene gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Clear to slightly hazy, Yellow, Light amber
Odor: Mild, Ester-like, Amine-like
Odor threshold: Not available
pH: Not applicable
Vapor pressure: < 5 mm hg (20 °C (68°F))
Boiling point/range: > 93.3 °C (> 199.9 °F)

Melting point/ range:	Not available
Specific gravity:	1.062
Vapor density:	Not available
Flash point:	87.2 °C (188.96 °F) Tagliabue closed cup
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Autoignition temperature:	Not available
Evaporation rate:	Not available
Solubility in water:	Slight
Partition coefficient (n-octanol/water):	Not available
VOC content:	0.59 %; 5.63 g/l (process) 0.50 %; 4.77 g/l (potential) 1.09 %; 10.40 g/l (total) (ASTM D5403)

10. STABILITY AND REACTIVITY

Stability:	Unstable.
Hazardous reactions:	May occur.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Oxides of phosphorus. Irritating organic vapours. Dimethylamine.
Incompatible materials:	Strong oxidizing agents. Strong acids. Strong bases.
Conditions to avoid:	Heat, fumes, sparks and other sources of ignition. Avoid temperatures above 26°C (80°F). Store away from incompatible materials.

11. TOXICOLOGICAL INFORMATION

Acute oral product toxicity:	Modified acrylamide LD50 (rat) 316 mg/kg
Acute dermal product toxicity:	Modified acrylamide LD50 (rabbit) 518 mg/kg
Acute inhalation product toxicity:	Modified acrylamide LC50 (rat) 1 h > 776 ppm (vapor)

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Acrylate oligomer	No	No	No
Modified acrylamide	No	No	No
Substituted hydroxyalkyl methacrylate	No	No	No
Trimethylolpropane polyoxyethylene triacrylate	No	No	No
Acrylate ester	No	No	No
Photoinitiator	No	No	No
Ethyl-4-dimethylaminobenzoate	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No
Methanol	No	No	No
Ethylene glycol	No	No	No

Hazardous components	Health Effects/Target Organs
Acrylate oligomer	Irritant, Allergen
Modified acrylamide	Irritant, Eyes, Mutagen, Kidney, Less weight gain and food intake.
Substituted hydroxyalkyl methacrylate	Irritant, Allergen
Trimethylolpropane polyoxyethylene triacrylate	Allergen, Irritant
Acrylate ester	Irritant, Allergen
Photoinitiator	No Target Organs
Ethyl-4-dimethylaminobenzoate	No Target Organs
Silica, amorphous, fumed, crystal-free	Nuisance dust
Methanol	Eyes, Heart, Irritant, Kidney, Liver, Metabolic, Nervous System, Reproductive
Ethylene glycol	Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Irritant, Kidney, Liver, Metabolic

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classification in this section are for bulk packaging only. Shipping classification may be different for non-bulk packaging as exceptions may apply. Refer to shipping documents for package specific transportation classification.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Combustible liquid, n.o.s. (Modified Acrylamide)
Hazard class or division: Combustible Liquid
Identification number: NA 1993
Packing group: III

International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12(b) Export Notification: None above reporting de minimus
CERCLA/SARA Section 302 EHS: None above reporting de minimus
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire
CERCLA/SARA 313: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Acrylate ester (CAS# 7328-17-8).
California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information

CEPA DSL/NDL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
WHMIS hazard class: B.3, D.1.B, D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format. 2-5, 8-11, 14 and 15

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