



Revision Number: 003.0 Issue date: 03/11/2009

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: 3943 Light Cure Medical Device IDH number:

Adhesive Visible/UV Cure Fluorescent

Product type: Adhesive

Company address:

Henkel Corporation

1001 Trout Brook Crossing

Rocky Hill, Connecticut 06067

Item number:36480Region:United States

Contact information: Telephone: 860.571.5100

Emergency telephone: 860.571.5100 Internet: www.henkelna.com

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

HMIS:

Physical state:LiquidHEALTH:\*2Color:Transparent, HazyFLAMMABILITY:2Odor:SharpPHYSICAL HAZARD:1

Personal Protection: See MSDS Section 8

434088

WARNING: COMBUSTIBLE LIQUID AND VAPOR.

CAUSES EYE AND SKIN IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

MAY BE HARMFUL IF SWALLOWED.

Relevant routes of exposure: Skin, Inhalation, Eyes

**Potential Health Effects** 

Inhalation: May cause respiratory tract irritation. May cause irritation to nose and throat.

**Skin contact:** Causes skin irritation. May cause allergic skin reaction.

**Eye contact:** Vapors may irritate eyes. Contact with eyes will cause irritation.

**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

Existing conditions aggravated by

exposure:

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Eye, skin, and respiratory disorders. Acrylic acid: Respiratory disorders. Lung disease.

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	%
Polyurethane Methacrylate Resin	Proprietary	30 - 60
Isobornyl acrylate	5888-33-5	10 - 30
2-Hydroxyethyl methacrylate	868-77-9	10 - 30
High boiling methacrylate	7534-94-3	5 - 10
Acrylic acid	79-10-7	1 - 5
Hydroxyalkyl methacrylate	27813-02-1	1 - 5
Photoinitiator	947-19-3	1 - 5
Gamma-glycidoxypropyl trimethoxysilane	2530-83-8	1 - 5
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	75980-60-8	1 - 5
Ethylene glycol	107-21-1	0.1 - 1

### 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Wash with soap and water. 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 medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Keep

individual calm. Never give anything by mouth to an unconscious person. Get

medical attention.

#### 5. FIRE FIGHTING MEASURES

Flash point: 80 °C (176°F) Pensky Martens 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.

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Hazardous combustion products: Oxides of carbon. Irritating organic vapours.

#### 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: 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.

### 7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.

Wash thoroughly after handling. Do not taste or swallow. Use only with

adequate ventilation.

Storage: For safe storage, store at or below 38 °C (100.4 °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
Polyurethane Methacrylate Resin	None	None	None	None
Isobornyl acrylate	None	None	None	None
2-Hydroxyethyl methacrylate	None	None	None	3 ppm Ceiling
High boiling methacrylate	None	None	None	None
Acrylic acid	2 ppm TWA (SKIN)	None	None	1 ppm TWA 3 ppm STEL (SKIN)
Hydroxyalkyl methacrylate	None	None	None	1 ppm TWA 3 ppm STEL
Photoinitiator	None	None	None	None
Gamma-glycidoxypropyl trimethoxysilane	None	None	None	None
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	None	None	None	None
Ethylene glycol	100 mg/m3 Ceiling Aerosol.	None	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

**Eye/face protection:** Safety goggles or safety glasses with side shields.

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: Transparent, Hazy

Odor: Sharp
Odor threshold: Not available
pH: Not applicable

 Vapor pressure:
 < 10 mm hg (75 °F (23.9 °C))</td>

 Boiling point/range:
 > 300 °F (> 148.9 °C)

Melting point/ range:
Specific gravity:
Vapor density:

Not available
1.1271
Not available

Flash point: 80 °C (176°F) Pensky Martens closed cup

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Evaporation rate:

Solubility in water:

Partition coefficient (n-octanol/water):

Not available

Not available

Slight

Not available

**VOC content:** 0.67 %; 7.55 g/l (process) 0.13 %; 1.47 g/l (potential)

0.13 %; 1.47 g/l (potential) 0.80 %; 9.02 g/l (total) (ASTM D5403)

### 10. STABILITY AND REACTIVITY

Stability: Stable

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Hazardous reactions: Will not occur.

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Irritating organic

vapours.

**Incompatible materials:** Strong oxidizing agents. Reducing agents. Peroxides.

Conditions to avoid: Keep away from heat, spark and flame. Store away from incompatible

materials.

### 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Polyurethane Methacrylate Resin	No	No	No
Isobornyl acrylate	No	No	No
2-Hydroxyethyl methacrylate	No	No	No
High boiling methacrylate	No	No	No
Acrylic acid	No	No	No
Hydroxyalkyl methacrylate	No	No	No
Photoinitiator	No	No	No
Gamma-glycidoxypropyl trimethoxysilane	No	No	No
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	No	No	No
Ethylene glycol	No	No	No

Hazardous components	Health Effects/Target Organs	
Polyurethane Methacrylate Resin	Irritant, Allergen	
Isobornyl acrylate	Irritant, Allergen	
2-Hydroxyethyl methacrylate	Irritant, Allergen	
High boiling methacrylate	Irritant, Allergen	
Acrylic acid	Allergen, Corrosive, Irritant, Kidney, Liver	
Hydroxyalkyl methacrylate	Irritant, Allergen	
Photoinitiator	No Records	
Gamma-glycidoxypropyl trimethoxysilane	Irritant, Allergen	
Diphenyl-2,4,6-trimethylbenzoyl phosphine oxide	No Records	
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. (Acrylic acid)

Hazard class or division: Combustible Liquid

Identification number: NA 1993
Packing group: III

## International Air Transportation (ICAO/IATA)

IDH number: 434088

Proper shipping name: Not regulated

Hazard class or division:

Identification number:

Packing group:

None

None

Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated

Hazard class or division:
Identification number:
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 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). Acrylic acid (CAS# 79-10-7).

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

**Canada Regulatory Information** 

IDH number: 434088

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List. WHMIS hazard class: B.3, 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. 2-5,8-11,13,14, and 15

Prepared by: Jennifer Glieco, Regulatory Affairs Specialist

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