

Revision Number: 004.0 Issue date: 08/13/2015

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE EA 3981 FLUORESCENT IDH number: 443946

HEAT CURE EPOXY known as 3981™

**Hysol® Epoxy Adhesive** 

Product type:One-part epoxyItem number:36766Restriction of Use:None identifiedRegion:United States

Company address: Contact information:

Henkel Corporation Telephone: +1 (860) 571-5100

One Henkel Way MEDICAL EMERGÉNCY Phone: Poison Control Center Rocky Hill, Connecticut 06067 1-877-671-4608 (toll free) or 1-303-592-1711

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

# 2. HAZARDS IDENTIFICATION

WARNING: CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

| HAZARD CLASS       | HAZARD CATEGORY |
|--------------------|-----------------|
| SKIN IRRITATION    | 2               |
| EYE IRRITATION     | 2A              |
| SKIN SENSITIZATION | 1               |

#### PICTOGRAM(S)



## **Precautionary Statements**

Prevention: Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Contaminated work

clothing should not be allowed out of the workplace. Wear eye and face protection. Wear

protective gloves.

Response: IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off

contaminated clothing.

Storage: Not prescribed

**Disposal:** Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

IDH number: 443946 Product name: LOCTITE EA 3981 FLUORESCENT HEAT CURE EPOXY known as 3981™ Hysol® Epoxy Adhesive

| Hazardous Component(s) | CAS Number  | Percentage* |
|------------------------|-------------|-------------|
| Epoxy resin            | Proprietary | 60 - 100    |
| Epoxy polyamine adduct | Proprietary | 10 - 30     |
| Glycidyl ester         | Proprietary | 10 - 30     |

<sup>\*</sup> Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

## 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. If symptoms develop and persist, get medical attention.

**Skin contact:** Immediately flush skin with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. If symptoms develop and persist, get medical attention. Wash clothing before reuse. Thoroughly clean shoes before

reuse.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get

medical attention.

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

Never give anything by mouth to an unconscious person. Get medical

attention.

Symptoms: See Section 11.

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## 5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), 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: May decompose above 149°C (300°F). May polymerize above 260°C (500°F)

in which case closed containers may rupture or explode. Fumes and vapors

from thermal decompositions vary in composition and toxicity.

Hazardous combustion products: Oxides of carbon. Phenolics. Toxic fumes. Irritating vapors.

# 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. Wear appropriate personal protective equipment.

Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed

container for disposal.

# 7. HANDLING AND STORAGE

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

Wash thoroughly after handling. Keep container closed. Use only with

adequate ventilation.

Storage: Keep container tightly closed and in a cool, well-ventilated place away from

incompatible materials. Keep away from heat, spark and flame. Protect from

direct sunlight.

# 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 Component(s) | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|------------------------|-----------|----------|-----------|-------|
| Epoxy resin            | None      | None     | None      | None  |
| Epoxy polyamine adduct | None      | None     | None      | None  |
| Glycidyl ester         | None      | None     | None      | None  |

Engineering controls: Use local exhaust ventilation if the potential for airborne exposure exists.

Respiratory protection: Use a NIOSH approved respirator if ventilation is inadequate.

Eyelface protection: Safety goggles or safety glasses with side shields. Full face protection should

be used if the potential for splashing or spraying of product exists.

**Skin protection:**Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste
Color: Tan
Odor: Slight

Odor threshold:

pH:

Vapor pressure:

Boiling point/range:

Melting point/ range:

Not available.

Not available.

Not available.

Not available.

Not available.

Specific gravity: 1.14

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Vapor density:

Not available.

Flash point:

> 93 °C (> 199.4 °F)

Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available. **Evaporation rate:** Not available. Solubility in water: Negligible Partition coefficient (n-octanol/water): Not available. **VOC** content: 5.72 % Viscosity: Not available. **Decomposition temperature:** Not available.

# 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Polymerization may occur at elevated temperature or in the presence of incompatible

materials.

Hazardous decomposition

products:

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Oxides of carbon. Phenolics. Toxic fumes. Irritating vapors.

Incompatible materials: Oxidizing agents. Acids. Bases. Amines.

Reactivity: Not available.

Conditions to avoid: Avoid temperatures above 149°C (300°F). Keep away from heat, ignition sources and

incompatible materials. Protect from direct sunlight.

# 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

# **Potential Health Effects/Symptoms**

Inhalation: Inhalation of vapors or mists of the product may be irritating to the respiratory system.

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

**Eye contact:** Causes serious eye irritation.

**Ingestion:** Not expected under normal conditions of use.

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|------------------------|-----------------|--------------------------------------|
| Epoxy resin            | None            | Allergen, Irritant                   |
| Epoxy polyamine adduct | None            | No Data                              |
| Glycidyl ester         | None            | Irritant, Allergen                   |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|------------------------|----------------|-----------------|--|
| Epoxy resin            | No             | No              | No                                       |
| Epoxy polyamine adduct | No             | No              | No                                       |
| Glycidyl ester         | No             | No              | No                                       |

# 12. ECOLOGICAL INFORMATION

Ecological information: Not available.

# 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

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

Proper shipping name: Not regulated (Up to 5 gallons max per inner/primary package when shipped as

originally packaged only)

Hazard class or division:
Identification number:
None
Packing group:
None

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin

resin) (Up to 5 gallons max per inner/primary package when shipped as originally

packaged only)

Hazard class or division: 9
Identification number: UN 3082
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A

Epichlorhydrin resin) (Up to 5 gallons max per inner/primary package when shipped

as originally packaged only)

Hazard class or division: 9
Identification number: UN 3082

Packing group:

Marine pollutant: Bisphenol-A Epichlorhydrin resin

# 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 minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis CERCLA/SARA Section 311/312: Immediate Health

CERCLA/SARA Section 313: None above reporting de minimis

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

**Canada Regulatory Information** 

CEPA DSL/NDSL Status: One or more components are not listed on, and are not exempt from listing on either the

Domestic Substances List or the Non-Domestic Substances List.

## 16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: Rena Petrides, Regulatory Affairs Specialist

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**Epoxy Adhesive** 

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