



Revision Date: 12/07/2007

Issue date: 01/10/2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**Product name:** LOCTITE® 2047™ HIGH STRENGTH
THREADLOCKER**Item No. :** 1134607 / IDH No. 1134607**Product type:** Anaerobic Adhesive**Region:** United States**Company address:**
Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067**Contact Information:**
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.loctite.com**2. COMPOSITION/INFORMATION ON INGREDIENTS**

| Hazardous components | % | ACGIH TLV | OSHA PEL | OTHER |
|---|----------|------------------|-----------------|---|
| Aromatic dimethacrylate ester 24448-20-2 | 60-100 | None | None | None |
| Hydroxyalkyl methacrylate 27813-02-1 | 1-5 | None | None | 1 ppm TWA; 3 ppm STEL |
| Cumene hydroperoxide 80-15-9 | 1-5 | None | None | 1 ppm (6 mg/m ³) Skin (WEEL), 1ppm, skin TWA, (WEEL) |
| 1-Acetyl-2-phenylhydrazine 114-83-0 | 0.1-1 | None | None | None |

3. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW****Physical state:** Liquid
Color: Grey
Odor: Mild**HMIS:****HEALTH:** 2*
FLAMMABILITY: 1
PHYSICAL HAZARD: 1
Personal Protection: See Section 8**WARNING:** CAUSES EYE AND SKIN IRRITATION.
MAY CAUSE RESPIRATORY TRACT IRRITATION.
MAY CAUSE ALLERGIC SKIN REACTION.**Relevant routes of exposure:** Skin, Inhalation, Eyes**Potential Health Effects****Inhalation:** May cause respiratory tract irritation.
Skin contact: Irritating to skin. May cause allergic skin reaction. May be harmful if absorbed through skin. Redness. Rash.
Eye contact: Contact with eyes will cause irritation. Tearing. Redness.
Ingestion: May be harmful if swallowed.**Existing conditions aggravated by exposure:** Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

Item No. : 1134607 / IDH No. 1134607**Product name:** LOCTITE® 2047™ HIGH STRENGTH THREADLOCKER
1 of 4

4. FIRST AID MEASURES

| | |
|----------------------|--|
| Inhalation: | Remove to fresh air. If symptoms develop and persist, get medical attention. |
| Skin contact: | Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur. |
| 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. Keep individual calm. Obtain medical attention. |

5. FIRE-FIGHTING MEASURES

| | |
|--|--|
| Flash point: | Greater than 93°C (200°F) Pensky Martens closed cup |
| Autoignition temperature: | Not available |
| Flammable/Explosive limits-lower %: | Not available |
| Flammable/Explosive limits-upper %: | Not available |
| Extinguishing media: | If product is involved in fire extinguish with dry powder, foam or carbon dioxide. |
| Special fire fighting procedures: | Wear self contained breathing apparatus |
| Unusual fire or explosion hazards: | None |
| Hazardous combustion products: | Oxides of carbon. Hydrogen fluoride. Toxic fluorides. Toxic fumes. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|-----------------------------------|--|
| Environmental precautions: | Ventilate area. Prevent product from entering the drains. |
| Clean-up methods: | Scrape up spilled material and place in a closed container for disposal. |

7. HANDLING AND STORAGE

| | |
|-------------------------------|---|
| Handling: | Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. |
| Storage: | For safe storage, store at or below 38°C (100°F). |
| Incompatible products: | Refer to Section 10. |

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|--------------------------------|---|
| Engineering controls: | No specific ventilation requirements noted, but forced ventilation may still be required if concentrations exceed occupational exposure limits. |
| Respiratory protection: | Use NIOSH approved respirator if there is potential to exceed exposure limit(s). |
| Skin protection: | Use impermeable gloves and protective clothing as necessary to prevent skin contact. Neoprene gloves. Butyl rubber gloves. Natural rubber gloves. |
| Eye/face protection: | Safety goggles or safety glasses with side shields. |

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------|--------|
| Physical state: | Liquid |
| Color: | Grey |

Item No. : 1134607 / IDH No. 1134607

Product name: LOCTITE® 2047™ HIGH STRENGTH THREADLOCKER
2 of 4

| | |
|---|---------------------------------------|
| Odor: | Mild |
| Vapor pressure: | Less than 5 mm Hg at 27°C (80°F) |
| pH: | Not applicable |
| Boiling point/range: | Greater than 149°C (300°F) |
| Melting point/range: | Not available |
| Specific gravity: | 1.115 |
| Vapor density: | Not available |
| Evaporation rate: | Not available |
| Solubility in water: | Slight |
| Partition coefficient (n-octanol/water): | Not available |
| VOC content: | 6.05%; 53 grams/liter (EPA Method 24) |

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions

Hazardous polymerization: Hazardous polymerization may occur in the presence of excess peroxides and metals contamination.

Hazardous decomposition products: Oxides of carbon. Hydrogen fluoride. Toxic fluorides. Toxic fumes. Irritating organic vapors.

Incompatibility: Strong acids and oxidizing agents. Strong alkalis. Reducing agents. Other polymerization initiators.

Conditions to avoid: High temperatures. See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

11. TOXICOLOGICAL INFORMATION

Product toxicity data: Acute oral LD50 greater than 10, 000 mg/kg (rat). Acute LD50 (dermal): More than 1500 (rabbit).

Carcinogen Status

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen |
|---|----------------|-----------------|-----------------|
| Aromatic dimethacrylate ester 24448-20-2 | No | No | No |
| Hydroxyalkyl methacrylate 27813-02-1 | No | No | No |
| Cumene hydroperoxide 80-15-9 | No | No | No |
| 1-Acetyl-2-phenylhydrazine 114-83-0 | No | No | No |

Literature Referenced Target Organ & Other Health Effects

| Hazardous components | Health Effects/Target Organs |
|---|--|
| Aromatic dimethacrylate ester 24448-20-2 | Allergen, Irritant |
| Hydroxyalkyl methacrylate 27813-02-1 | Allergen, Irritant |
| Cumene hydroperoxide 80-15-9 | Allergen, Central nervous system, Corrosive, Irritant, Mutagen |
| 1-Acetyl-2-phenylhydrazine 114-83-0 | Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity |

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.

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

Item No. : 1134607 / IDH No. 1134607

Product name: LOCTITE® 2047™ HIGH STRENGTH THREADLOCKER
3 of 4

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

Proper shipping name: Unrestricted
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Unrestricted
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG):

Proper shipping name: Unrestricted
Hazard class or division: None
Identification number: None
Packing group: None
Marine pollutant: 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.

CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard
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). Cumene hydroperoxide (CAS# 80-15-9) .

California Proposition 65: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Canada Regulatory Information

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

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: First issue.

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.