



Revision Number: 006.0

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1. PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|-------------------------------|--|--|---------------|
| Product name: | LOCTITE M 3010-1RS E&C known as | IDH number: | 1263354 |
| | M-3010-1RS | | |
| Product type/use: | Ink | Region: | United States |
| Restriction of Use: | None identified | Contact information: | |
| Company address: | | Telephone: +1 (860) 571-5100 | |
| Henkel Corporation | | MEDICAL EMERGENCY Phone: Poison Control Center | |
| One Henkel Way | | 1-877-671-4608 (toll free) or 1-303-592-1711 | |
| Rocky Hill, Connecticut 06067 | | TRANSPORT EMERGENCY Phone: CHEMTREC | |
| | | 1-800-424-9300 (toll free) or 1-703-527-3887 | |
| | | Internet: www.henkelna.com | |

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: COMBUSTIBLE LIQUID.

HAZARD CLASS

FLAMMABLE LIQUID

HAZARD CATEGORY

4

PICTOGRAM(S)

None

Precautionary Statements

| | |
|--------------------|---|
| Prevention: | Keep away from heat, sparks, open flames, hot surfaces - no smoking. Wear protective gloves, eye protection, and face protection. |
| Response: | In case of fire: Use foam, dry chemical or carbon dioxide to extinguish. |
| Storage: | Store in a well-ventilated place. Keep cool. |
| 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

| Hazardous Component(s) | CAS Number | Percentage* |
|---------------------------------|------------|-------------|
| Butoxyethyl acetate | 112-07-2 | 30 - 60 |
| Silver | 7440-22-4 | 30 - 60 |
| Graphite | 7782-42-5 | 5 - 10 |
| 3,5,5-trimethylcyclohex-2-enone | 78-59-1 | 1 - 5 |
| Carbon black | 1333-86-4 | 1 - 5 |

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

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|----------------------|--|
| 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: | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. |
| Ingestion: | Do not induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs, prevent aspiration by keeping the patient's head below the knees. Get medical attention. |
| Symptoms: | See Section 11. |

5. FIRE FIGHTING MEASURES

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| Extinguishing media: | Water spray (fog), foam, dry chemical or carbon dioxide. Alcohol foam. |
| Special firefighting procedures: | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray. |
| Unusual fire or explosion hazards: | Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. Vapors are heavier than air and may travel along the ground or be moved by ventilation and subsequently ignited by heat, pilot lights or other ignition sources at locations distant from the material handling point. |
| Hazardous combustion products: | Oxides of carbon, oxides of nitrogen, irritating organic vapors. Oxides of Metals in Section 3. |

6. ACCIDENTAL RELEASE MEASURES

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

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

7. HANDLING AND STORAGE

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| Handling: | During use and until all vapors are gone: Keep area ventilated - do not smoke; extinguish all flames, pilot lights, and heaters; turn off stoves, electrical tools and appliances, and any other sources of ignition. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Refer to Section 8. |
| Storage: | For safe storage, store between 5.0 °C (41°F) and 30.0 °C (86°F) Protect from direct sunlight. 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, please review labels on container or check the Technical Data Sheet.

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 |
|---------------------------------|--|--|-----------|-------|
| Butoxyethyl acetate | 20 ppm TWA | None | None | None |
| Silver | 0.1 mg/m ³ TWA Dust and fume. | 0.01 mg/m ³ PEL (as Ag) | None | None |
| Graphite | 2 mg/m ³ TWA Respirable fraction. | 5 mg/m ³ PEL Respirable fraction. 15 mg/m ³ PEL Total dust. | None | None |
| 3,5,5-trimethylcyclohex-2-enone | 5 ppm Ceiling | 25 ppm (140 mg/m ³) PEL | None | None |
| Carbon black | 3 mg/m ³ TWA Inhalable fraction. | 3.5 mg/m ³ PEL | None | None |

Engineering controls:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Respiratory protection:

Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

Eye/face 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. Safety showers and eye wash stations should be available.

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, Liquid |
| Color: | Gray |
| Odor: | mild, Ester-like |
| Odor threshold: | Not available. |
| pH: | Not applicable |
| Vapor pressure: | 0.1 mm hg |
| Boiling point/range: | 192 °C (377.6 °F) |
| Melting point/ range: | Not available. |
| Specific gravity: | 1.45 |
| Vapor density: | 1.0 (Air = 1) |
| Flash point: | 79.4 °C (174.92 °F) |
| Flammable/Explosive limits - lower: | 0.5 % |
| Flammable/Explosive limits - upper: | 8.5 % |
| Autoignition temperature: | Not available. |
| Flammability: | Not applicable |
| Evaporation rate: | 1 (Butyl acetate = 1) |
| Solubility in water: | Insoluble |
| Partition coefficient (n-octanol/water): | Not applicable |
| VOC content: | 684 g/l |
| Viscosity: | 30 - 40 mPa.s |
| Decomposition temperature: | Not available. |

10. STABILITY AND REACTIVITY

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|--|---|
| Stability: | Stable under normal conditions of storage and use. |
| Hazardous reactions: | None under normal processing. |
| Hazardous decomposition products: | Oxides of carbon. Oxides of Metals in Section 3. Toxic fumes. Irritating vapors. |
| Incompatible materials: | Strong acids, alkalis and oxidizing agents. |
| Reactivity: | Not available. |
| Conditions to avoid: | Excessive heat. Heat, flames, sparks and other sources of ignition. Store away from incompatible materials. Protect from direct sunlight. |

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

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|----------------------|---|
| Inhalation: | May cause respiratory tract irritation. May cause central nervous system effects with nausea, dizziness and headache. |
| Skin contact: | May cause skin irritation. Argyria (a non-toxic, cosmetic blue-gray discoloration of the skin and mucous membranes that is irreversible). |
| Eye contact: | May cause eye irritation. |
| Ingestion: | May cause gastrointestinal tract irritation if swallowed. |

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|---------------------------------|---|---|
| Butoxyethyl acetate | Oral LD50 (Rat) = 2,400 mg/kg Oral LD50 (Rat) = 3,000 mg/kg Dermal LD50 (Rabbit) = 1,500 mg/kg | Behavioral, Blood, Bone Marrow, Central nervous system, Irritant, Kidney, Liver, Lung |
| Silver | Oral LD50 (Rat) = > 5,000 mg/kg Dermal LD50 (Rat) = > 2,000 mg/kg Inhalation LC50 (Rat, 4 h) = > 5.16 mg/l Inhalation LC50 (Rat, 4 h) = 750 µg/m3 | Allergen, Eyes, Irritant, Respiratory, Skin |
| Graphite | Inhalation LC50 (Rat, 4 h) = > 2,000 mg/m3 Inhalation LC50 (Rat, 4 h) = > 2,000 mg/m3 | Lung |
| 3,5,5-trimethylcyclohex-2-enone | Oral LD50 (Rat) = 2,280 mg/kg Oral LD50 (Rat) = 1,000 mg/kg Oral LD50 (Rat) = 2.37 g/kg Oral LD50 (Mouse) = 2.0 g/kg Oral LD50 (Rat) = > 3,200 mg/kg Oral LD50 (Mouse) = > 3,200 mg/kg Dermal LD50 (Rabbit) = 1,500 mg/kg | Blood, Central nervous system, Eyes, Irritant, Kidney, Liver |
| Carbon black | Oral LD50 (Rat) = > 8,000 mg/kg | Respiratory, Some evidence of carcinogenicity |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---------------------------------|----------------|-----------------|--|
| Butoxyethyl acetate | No | No | No |
| Silver | No | No | No |
| Graphite | No | No | No |
| 3,5,5-trimethylcyclohex-2-enone | No | No | No |
| Carbon black | No | Group 2B | 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: This product contains a component or components identified as hazardous under 40 CFR 261.24. D011: Silver (Check TCLP Level). D043. Vinyl Chloride.

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: Combustible liquid, n.o.s. (Ethylene glycol monobutyl ether acetate)
Hazard class or division: Combustible Liquid
Identification number: NA 1993
Packing group: III
DOT Hazardous Substance(s): Silver

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 minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis.
CERCLA/SARA Section 311/312: Fire
CERCLA/SARA Section 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). Butoxyethyl acetate (CAS# 112-07-2). Silver (CAS# 7440-22-4).
CERCLA Reportable quantity: Silver (CAS# 7440-22-4) 1,000 lbs. (454 kg)

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

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2,3,5,10,11,13,15

Prepared by: Product Safety and Regulatory Affairs

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