

Revision Number: 003.0 Issue date: 08/05/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE MR 5414 BLACK CONTACT IDH number: 234930

ADHESIVE known as Loctite® Black

Contact Adhesiv

Product type:Contact adhesiveItem number:30540Restriction of Use:None identifiedRegion:United States

Company address:Contact information:Henkel CorporationTelephone: (860) 571-

Henkel Corporation

One Henkel Way

Telephone: (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center

Rocky Hill, Connecticut 06067 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

EMERGENCY OVERVIEW

DANGER: HIGHLY FLAMMABLE LIQUID AND VAPOR.

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

CAUSES SKIN IRRITATION.

CAUSES SERIOUS EYE IRRITATION.

MAY CAUSE DROWSINESS OR DIZZINESS.

| HAZARD CLASS | HAZARD CATEGORY |
|--|-----------------|
| FLAMMABLE LIQUID | 2 |
| SKIN IRRITATION | 2 |
| EYE IRRITATION | 2A |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | 3 |
| ASPIRATION HAZARD | 1 |





Precautionary Statements

Prevention: Keep away from heat, sparks, open flames, hot surfaces - no smoking. Keep container tightly

closed. No release into water. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective

gloves, eye protection, and face protection.

Response: IF SWALLOWED: Immediately call a physician or poison control center. If on skin (or hair):

Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Call a poison control center or physician if you feel unwell. Do NOT induce vomiting. If skin irritation occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. In case of fire: Use

foam, dry chemical or carbon dioxide to extinguish.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place.

Keep cool. Store locked up.

IDH number: 234930 Product name: LOCTITE MR 5414 BLACK CONTACT ADHESIVE known as Loctite® Black Contact

Adhesiv

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* | |
|--|-------------|-------------|--|
| Methyl ethyl ketone | 78-93-3 | 10 - 30 | |
| Toluene | 108-88-3 | 10 - 30 | |
| Acetone | 67-64-1 | 10 - 30 | |
| n-Hexane | 110-54-3 | 10 - 30 | |
| Magnesium oxide | 1309-48-4 | 5 - 10 | |
| Silica, amorphous, fumed, crystal-free | 112945-52-5 | 5 - 10 | |
| Resin | Proprietary | 5 - 10 | |
| Carbon black | 1333-86-4 | 0.1 - 1 | |

^{*} 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 in case of accidental inhalation of vapours. If breathing is

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

If not breathing, give artificial respiration.

Skin contact: Wash with soap and water. If symptoms develop and persist, get medical

attention.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15

minutes, and seek immediate medical attention.

Ingestion: If material is ingested, immediately contact a physician or poison control

center.

Symptoms: See Section 11.

IDH number: 234930

5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear a self-contained breathing apparatus with a full face piece operated in

pressure-demand or other positive pressure mode.

Unusual fire or explosion hazards: Closed containers may rupture (due to build up of pressure) when exposed to

extreme heat.

Hazardous combustion products: Oxides of carbon. 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 material to contaminate ground water system.

Product name: LOCTITE MR 5414 BLACK CONTACT ADHESIVE known as Loctite® Black Contact Adhesiv

Clean-up methods: Wipe up with adsorbent material (e.g. cloth, fleece). Scrape up spilled material

and place in a closed container for disposal.

7. HANDLING AND STORAGE

Handling: When using, do not eat, drink or smoke. Keep away from heat, spark and

flame.

Storage: Store away from ignition sources. Keep in a cool, well ventilated area. Keep

container closed.

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 Component(s) | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|--|--|---|-----------|-------|
| Methyl ethyl ketone | 200 ppm TWA 300 ppm STEL | 200 ppm (590 mg/m3) PEL | None | None |
| Toluene | 20 ppm TWA | 200 ppm TWA 300 ppm Ceiling 500 ppm MAX. CONC 10 minutes | None | None |
| Acetone | 750 ppm STEL 500 ppm TWA | 1,000 ppm (2,400 mg/m3) PEL | None | None |
| n-Hexane | 50 ppm TWA (SKIN) | 500 ppm (1,800 mg/m3) PEL | None | None |
| Magnesium oxide | 10 mg/m3 TWA Inhalable fraction. | 15 mg/m3 PEL Total particulate. | None | None |
| Silica, amorphous, fumed, crystal-free | 10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction. | 20 MPPCF TWA 0.8 mg/m3 TWA | None | None |
| Resin | None | None | None | None |
| Carbon black | 3 mg/m3 TWA Inhalable fraction. | 3.5 mg/m3 PEL | None | None |

Engineering controls: Local exhaust ventilation is recommended when general ventilation is not

sufficient to control airborne contamination. Ensure adequate ventilation,

especially in confined areas.

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. Full face protection should

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

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

contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid Color: Black Odor: Solvent Odor threshold: Not available. pH: Not available. Vapor pressure: Not available. Boiling point/range: Not available. Melting point/ range: Not available. Vapor density: Not available. Flash point: -24 °C (-11.2 °F)

IDH number: 234930 Product name: LOCTITE MR 5414 BLACK CONTACT ADHESIVE known as Loctite® Black Contact
Adhesiv

Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available. Evaporation rate: Not available. Solubility in water: Not available. Partition coefficient (n-octanol/water): Not available. **VOC** content: 51.00 %; 452.00 g/l Viscosity: Not available. **Decomposition temperature:** Not available.

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

Oxides of carbon. Irritating organic vapours.

Incompatible materials: Acids and bases. Oxidizing agents.

Reactivity: Not available.

Conditions to avoid: Heat, flames, sparks and other sources of ignition.

11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects/Symptoms

Inhalation: Vapours may cause drowsiness and dizziness.

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye irritation.

Ingestion: This product may be fatal if it is swallowed.

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects | |
|--|--|--|--|
| Methyl ethyl ketone | Oral LD50 (RAT) = 2,300 - 3,500 mg/kg Oral LD50 (RAT) = 4,500 - 6,800 mg/kg Dermal LD50 (RABBIT) = > 8,000 mg/kg Inhalation LC50 (RAT, 4 h) = 11700 ppm | Irritant, Central nervous system | |
| Toluene | Oral LD50 (RAT) = 2.6 g/kg Oral LD50 (RAT) = 5,000 mg/kg Dermal LD50 (RABBIT) = 12,124 mg/kg Inhalation LC50 (RAT, 1 h) = 26700 ppm Inhalation LC50 (RAT, 2 h) = 12200 ppm Inhalation LC50 (RAT, 4 h) = 8000 ppm | Behavioral, Cardiac, Central nervous system, Developmental, Ear, Irritant | |
| Acetone | Oral LD50 (RABBIT) = 5,340 mg/kg Oral LD50 (RAT) = 5,800 mg/kg Oral LD50 (RAT) = 9,800 mg/kg Dermal LD50 (RABBIT) = 20,000 mg/kg Inhalation LC50 (RAT, 8 h) = 50.1 mg/l Inhalation LC50 (RAT, 4 h) = 76 mg/l | Blood, Central nervous system, Irritant, Reproductive | |
| n-Hexane | Oral LD50 (RAT) = 24 mg/kg Oral LD50 (RAT) = 43.5 mg/kg Oral LD50 (RAT) = 28,710 mg/kg Dermal LD50 (RABBIT) = > 2,000 mg/kg Inhalation LC50 (RAT, 4 h) = 73860 ppm | Developmental, Irritant, Lung, Nervous System, Reproductive | |
| Magnesium oxide | None | Blood, Central nervous system, Immune system, Irritant | |
| Silica, amorphous, fumed, crystal-free | None | Nuisance dust | |
| Resin | None | Irritant, Allergen | |
| 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) |
|--|----------------|-----------------|--|
| Methyl ethyl ketone | No | No | No |
| Toluene | No | No | No |
| Acetone | No | No | No |
| n-Hexane | No | No | No |
| Magnesium oxide | No | No | No |
| Silica, amorphous, fumed, crystal-free | No | No | No |
| Resin | No | No | No |
| Carbon black | No | Group 2B | No |

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

IDH number: 234930

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: D001: Ignitable. D035: Methyl Ethyl Ketone.

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: Adhesives
Hazard class or division: 3
Identification number: UN 1133
Packing group: II

DOT Hazardous Substance(s): Toluene, Methyl ethyl ketone

International Air Transportation (ICAO/IATA)

Proper shipping name: Adhesives
Hazard class or division: 3
Identification number: UN 1133
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: ADHESIVES

Hazard class or division: 3
Identification number: UN 1133
Packing group: II

5. 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, Delayed Health, 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). Methyl ethyl ketone (CAS# 78-93-3). Toluene (CAS# 108-88-3). n-Hexane

(CAS# 110-54-3).

CERCLA Reportable quantity: Methyl ethyl ketone (CAS# 78-93-3) 5,000 lbs. (2,270 kg)

Toluene (CAS# 108-88-3) 1,000 lbs. (454 kg) Acetone (CAS# 67-64-1) 5,000 lbs. (2,270 kg) n-Hexane (CAS# 110-54-3) 5,000 lbs. (2,270 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/NDSL 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: New Safety Data Sheet format.

IDH number: 234930 Product name: LOCTITE MR 5414 BLACK CONTACT ADHESIVE known as Loctite® Black Contact
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Prepared by: Catherine Bimler, Regulatory Affairs Specialist

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