Safety Data Sheet



Revision Number: 005.2 Issue date: 06/05/2025

1. IDENTIFICATION

Product name: LOCTITE MR 5412 CONTACT

ADHESIVE known as Loctite(R)

Contact Adhesive

Product type/ Adhesive

Recommended use:

Restriction of Use: None identified

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

IDH number: 234923

Item number: 30537

Region: United States

Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center 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 MEDICAL EMERGENCY Phone: Poison Control Center 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:	H225 - HIGHLY FLAMMABLE LIQUID AND VAPOUR.	
	H304 - MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.	
	H315 - CAUSES SKIN IRRITATION.	
	H319 - CAUSES SERIOUS EYE IRRITATION.	
	LIGOR MANY CALLOE DECOMONIEGO OF DIZZINIEGO	

H336 - MAY CAUSE DROWSINESS OR DIZZINESS.

H361 - SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. H373 - MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR

REPEATED EXPOSURE.

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

PICTOGRAM(S)



Precautionary Statements

Prevention: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, sparks, open flames, hot surfaces - no smoking.

P233 - Keep container tightly closed.

P240 - Ground and bond container and receiving equipment.

P241 - Use explosion-proof equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges. P260 - Do not breathe vapors, mist, or spray.

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P264 - Wash affected area thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, clothing, eye and face protection.

P301+P310 - IF SWALLOWED: Immediately call a physician or poison control center. Response:

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. P304+P340+P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical attention.

P331 - Do NOT induce vomiting

P332+P313 - If skin irritation occurs: Get medical attention. P337+P313 - If eye irritation persists: Get medical attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use foam, dry chemical or carbon dioxide to extinguish. Storage:

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

Disposal: P501 - Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Other hazards Not available.

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	Weight %*
Methyl ethyl ketone	78-93-3	10 - 30
acetone	67-64-1	10 - 30
Toluene	108-88-3	10 - 30
n-Hexane	110-54-3	10 - 30
Magnesium oxide	1309-48-4	1 - 5
Silica, amorphous, fumed, crystal-free	112945-52-5	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

First Aid Measures by likely routes of exposure

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. Get medical

attention.

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

medical attention.

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

> Aspiration may cause pulmonary edema and pneumonitis. Never give anything by mouth to an unconscious person. Get medical attention.

Most important symptoms and effects (acute

and delayed):

The most important known symptoms and effects, both acute and delayed, are

described in Section 11: Toxicological Information.

Indication of any immediate medical attention / special treatment needed:

Not available.

5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

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Improper extinguishing agents: Not available.

Special firefighting procedures: Never use welding or cutting torch on or near drum (even empty) because

product (even just residue) can ignite explosively. 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: Hydrocarbon solvents are basically non-conductors of electricity and can

become electrostatically charged during mixing, filtering or pumping at high flow rates. If this charge reaches a significantly high level, sparks can form that may ignite vapors of flammable liquids. Sudden release of hot organic chemical vapors or mist from process equipment operated at elevated temperatures and pressures or sudden ingress of air into vacuum equipment may result in ignitions without the presence of obvious ignition sources.

Hazardous combustion products: Oxides of carbon. Hydrocarbons. 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: Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to

prevent entry into water system; wear full protective equipment during cleanup. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure

Controls / Personal Protection" prior to clean up.

7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Prevent contact with eyes, skin and

clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not taste or swallow. DO NOT heat or spray. Refer to Section 8.

Storage: For safe storage, store between 0 °C (32°F) and 49 °C (120.2 °F)

Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. Ground and bond metal

containers for liquid transfer to avoid static sparks.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

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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	(SKIN) 75 ppm TWA 150 ppm STEL	200 ppm (590 mg/m3) PEL	None	None
acetone	250 ppm TWA 500 ppm STEL	1,000 ppm (2,400 mg/m3) PEL	None	None
Toluene	20 ppm TWA	200 ppm TWA 300 ppm Ceiling 500 ppm MAX. CONC 10 minutes	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. 50 MPPCF TWA Total dust. 5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust. 15 MPPCF TWA Respirable fraction.	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction. 3 mg/m3 TWA Respirable particles. 10 mg/m3 TWA Inhalable particles.	20 MPPCF TWA 0.8 mg/m3 TWA 50 MPPCF TWA Total dust. 5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust. 15 MPPCF TWA Respirable fraction.	None	None

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

exposure limits.

Respiratory protection:

Use a NIOSH approved supplied air respirator if the potential to exceed

established exposure limits exists. If this material is handled at elevated temperatures or under mist forming conditions, without engineering controls, a

NIOSH approved respirator must be used.

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 impermeable gloves and protective clothing as necessary to prevent skin

contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:YellowOdor:SolventOdor threshold:Not available.pH:Not applicable

Vapor pressure: 181 mm hg (20 °C (68°F))

Boiling point/range: 56 °C (132.8 °F)
Melting point/ range: Not available.

Density/Relative density: 0.91

Relative vapor density: 0.91
2.68

Flash point: -24 °C (-11.2 °F) Tagliabue closed cup

Flammable/Explosive limits - lower: 1 %
Flammable/Explosive limits - upper: 12.6 %
Autoignition temperature: Not available.
Flammability: Not applicable

Evaporation rate: 14.4 (Butyl acetate = 1)

Solubility:
Partition coefficient n-octanol/water Negligible Water Not available.

(logarithmic value): VOC content: 47.4 %; 430 g/l

Dynamic viscosity: 6,200.00 - 7,200.00 mPa.s

Not available. Kinematic viscosity: Particle characteristics: Not available. **Decomposition temperature:** Not available.

STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Will not occur.

Hazardous decomposition products:

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Oxides of carbon. Irritating organic vapours. Hydrocarbons.

Incompatible materials: Oxidizing agents. Acids.

Reactivity: Not available.

Conditions to avoid: Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from

incompatible materials.

11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects/Symptoms

May cause central nervous system effects with nausea, dizziness and headache. Causes skin irritation. Repeated or prolonged contact can result in drying of skin. Inhalation: Skin contact:

Eye contact: Ingestion: Causes serious eye irritation.

Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis.

Hazardous Component(s)	LD50s and LC50s
	Oral LD50 (Mouse) = 670 mg/kg
Methyl ethyl ketone	Oral LD50 (Rat) = 2,300 - 3,500 mg/kg
Westly bury Recent	Oral LD50 (Rat) = 4,500 - 6,800 mg/kg
	Dermal LD50 (Rabbit) = > 8,000 mg/kg
	Oral LD50 (Mouse) = 5.2 g/kg
	Oral LD50 (Mouse) = 3,000 mg/kg
	Oral LD50 (Rabbit) = 5,340 mg/kg
acetone	Oral LD50 (Rat) = 5,800 mg/kg
acetorie	Oral LD50 (Rat) = 9,800 mg/kg
	Dermal LD50 (Rabbit) = 20,000 mg/kg
	Inhalation LC50 (Rat, 4 h) = 76 mg/l
	Inhalation LC50 (Rat, 4 h) = 50.1 mg/l
	Oral LD50 (Rat) = 2.6 g/kg
	Dermal LD50 (Rabbit) = 12,124 mg/kg
Toluene	Inhalation LC50 (Rat, 4 h) = 12.5 - 28.8 mg/l
Toluene	Inhalation LC50 (Rat, 4 h) = 25.7 mg/l
	Inhalation LC50 (Rat, 4 h) = 28.1 mg/l
	Inhalation LC50 (Rat, 4 h) = 30 mg/l
n-Hexane	Oral LD50 (Rat) = 28,710 mg/kg
Magnesium oxide	None
Silica, amorphous, fumed, crystal-free	None

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Methyl ethyl ketone	Irritant		Central nervous system
acetone	Irritant		Central nervous system
Toluene	Irritant		Behavioral Cardiac Central nervous system Developmental Ear
n-Hexane	Irritant		Developmental Lung Nervous System Reproductive
Magnesium oxide	Irritant		Blood Central nervous system Immune system
Silica, amorphous, fumed, crystal-free	Nuisance dust		

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Methyl ethyl ketone	No	No	No
acetone	No	No	No
Toluene	No	No	No
n-Hexane	No	No	No
Magnesium oxide	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

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13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

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

TRANSPORT INFORMATION

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

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

Proper shipping name: Adhesives Hazard class or division: 3 Identification number: UN 1133 Packing group: Ш Marine pollutant: Hexane

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

International Air Transportation (ICAO/IATA)

Proper shipping name: Adhesives Hazard class or division: Identification number: UN 1133

Packing group:

(Not more than 500 ml), May Qualify as Consumer Commodity, ID8000 **Exceptions:**

Water Transportation (IMO/IMDG)

Proper shipping name: **ADHESIVES**

Hazard class or division: 3

Identification number: **UN 1133** Packing group: Ш

REGULATORY INFORMATION

United States Regulatory Information

TSCA 12 (b) Export Notification:

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances

Control Act (TSCA) inventory. None above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis.

CERCLA/SARA Section 311/312: Please refer to the GHS classification in Section 2

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). C.I. Solvent Yellow 3 (CAS# 97-56-3).

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

acetone (CAS# 67-64-1) 5,000 lbs. (2,270 kg) Toluene (CAS# 108-88-3) 1,000 lbs. (454 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: 4,8,11

Prepared by: Product Safety and Regulatory Affairs

Issue date: 06/05/2025

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