## **Safety Data Sheet**



Revision Number: 008.1 Issue date: 06/18/2025

## 1. IDENTIFICATION

Product name: LOCTITE 384 known as LOCTITE®

384 OUTPUT® ADHESIVE

Product type/ Anaerobic Adhesive

Recommended use:

Restriction of Use: None identified

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

**IDH number:** 135256

Item number: 17099

Region: United States

Contact information:

Telephone: +1 (860) 571-5100

MEDICAL EMERGÉNCY 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: H315 - CAUSES SKIN IRRITATION.

H317 - MAY CAUSE AN ALLERGIC SKIN REACTION.

H319 - CAUSES SERIOUS EYE IRRITATION. H335 - MAY CAUSE RESPIRATORY IRRITATION.

H360 - MAY DAMAGE FERTILITY OR THE UNBORN CHILD.

H373 - MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR

REPEATED EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1
REPRODUCTIVE TOXICITY	1B
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	2





#### **Precautionary Statements**

**Prevention:** P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe vapors, mist, or spray.
P264 - Wash affected area thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace.

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

**Response:** P302+P352 - IF ON SKIN: Wash with plenty of water.

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.

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P308+P313 - IF exposed or concerned: Get medical attention. P333+P313 - If skin irritation or rash occurs: Get medical attention.

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

P362+P364 - Take off contaminated clothing and wash it before reuse. Storage: P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

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

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 %*	
Aluminium hydroxide	21645-51-2	60 - 80	
Tetrahydrofurfuryl methacrylate	2455-24-5	10 - 30	
Hydroxyalkyl methacrylate	27813-02-1	5 - 10	
Cumene hydroperoxide	80-15-9	1 - 5	
1,3-Butylene glycol dimethacrylate	1189-08-8	0.1 - 1	
Methyl methacrylate	80-62-6	0.1 - 1	

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

#### **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

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

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

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.

Improper extinguishing agents: Not available.

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: Uncontrolled polymerization may occur at high temperatures resulting in

explosions or rupture of storage containers.

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Hazardous combustion products:

Oxides of carbon. Oxides of nitrogen. 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. Refer to Section 8.

**Storage:** For safe storage, store at or below 38 °C (100.4 °F)

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
Aluminium hydroxide	1 mg/m3 TWA Respirable fraction. 10 mg/m3 TWA (as Al) Total dust. 3 mg/m3 TWA Respirable particles. 10 mg/m3 TWA Inhalable particles.	15 mg/m3 TWA (as Al) Total dust. 5 mg/m3 TWA (as Al) Respirable fraction. 15 MPPCF TWA Respirable fraction. 15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction. 50 MPPCF TWA Total dust.	None	None
Hydroxyalkyl methacrylate	None	None	None	1 ppm TWA 3 ppm STEL
Cumene hydroperoxide	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None
Methyl methacrylate	50 ppm TWA 100 ppm STEL (Dermal sensitization)	100 ppm (410 mg/m3) PEL	None	50 ppm

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. 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.

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Skin protection:

Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact. Neoprene gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste, Liquid Color: White Odor: Mild Odor threshold: Not available.

pH:

Product is non-polar/aprotic., Not applicable  $< 5 \text{ mm hg } (27 \,^{\circ}\text{C } (80.6 \,^{\circ}\text{F})) < 6.5 \text{ mbar } (20 \,^{\circ}\text{C } (68\,^{\circ}\text{F})) > 150 \,^{\circ}\text{C } (> 302\,^{\circ}\text{F})$ Vapor pressure:

Boiling point/range:

Melting point/ range: Not applicable, Product is a liquid

Density/Relative density: 1.0 Relative vapor density: > 1 20 °C

> 93.3 °C (> 199.94 °F) Flash point:

Not available. Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available.

Flammability: The product is not flammable.

**Evaporation rate:** Not available. Solubility: Slight Water

Solubility: Partially soluble Acetone

Partition coefficient n-octanol/water Not available.

(logarithmic value):

VOC content: 26.6 %; 266 g/I EPA Method 24

Not available. Dynamic viscosity: Kinematic viscosity: > 20.5 mm2/s

Particle characteristics: Not applicable, Product is a liquid

**Decomposition temperature:** Not available.

#### 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: None under normal processing. Polymerization may occur at elevated temperature or in the

presence of incompatible materials.

Hazardous decomposition

products:

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Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Irritating organic vapours.

Incompatible materials: Strong oxidizing agents. Free radical initiators. Reducing agents. Strong acids. Oxygen

scavengers. Other polymerization initiators. Heavy metals. Amines. Peroxides. Alkalis.

Reactivity: Not available.

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

incompatible materials. Do not freeze. Protect from direct sunlight. UV light. Inert gas

blanketing. Avoid moisture.

## 11. TOXICOLOGICAL INFORMATION

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

#### **Potential Health Effects/Symptoms**

**Inhalation:** May cause respiratory tract irritation. May cause central nervous system effects.

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

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

Ingestion: May cause gastrointestinal tract irritation if swallowed. Not expected under normal conditions of

use.

Hazardous Component(s)	LD50s and LC50s
Aluminium hydroxide	Oral LD50 (Rat) = > 5,000 mg/kg
Tetrahydrofurfuryl methacrylate	None
Hydroxyalkyl methacrylate	None
Cumene hydroperoxide	None
1,3-Butylene glycol dimethacrylate	None
Markland was the same date	Oral LD50 (Rat) = 7,800 mg/kg
Methyl methacrylate	Oral LD50 (Rabbit) = 6,000 mg/kg Oral LD50 (Rat) = 9,400 mg/kg

Hazardous Component(s)	Immediate Health Effects	Delayed Health Effects	Chronic Health Effects
Aluminium hydroxide	Irritant		Lung Respiratory
Tetrahydrofurfuryl methacrylate	Irritant	Allergen	
Hydroxyalkyl methacrylate	Irritant	Allergen	
Cumene hydroperoxide	Corrosive Irritant	Allergen	Central nervous system Mutagen
1,3-Butylene glycol dimethacrylate	Irritant	Allergen	
Methyl methacrylate	Irritant	Allergen	Kidney Liver Mutagen Nervous System Respiratory

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Aluminium hydroxide	No	No	No
Tetrahydrofurfuryl methacrylate	No	No	No
Hydroxyalkyl methacrylate	No	No	No
Cumene hydroperoxide	No	No	No
1,3-Butylene glycol dimethacrylate	No	No	No
Methyl methacrylate	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.

## 14. 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: RQ, Environmentally hazardous substance, liquid, n.o.s.

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

**DOT Hazardous Substance(s):** alpha,alpha-Dimethylbenzylhydroperoxide

#### International Air Transportation (ICAO/IATA)

**Proper shipping name:** RQ, Environmentally hazardous substance, liquid, n.o.s.

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

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Water Transportation (IMO/IMDG)

Packing group:

Proper shipping name: Hazard class or division: Identification number:

RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

UN 3082

#### REGULATORY INFORMATION

**United States Regulatory Information** 

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

Control Act (TSCA) inventory.

TSCA 12 (b) Export Notification: None above reporting de minimisNone above reporting de minimis

CERCLA/SARA Section 302 EHS:

None above reporting de minimis.

CERCLA/SARA Section 311/312: **CERCLA/SARA Section 313:** 

Please refer to the GHS classification in Section 2

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).

**CERCLA Reportable quantity:** Cumene hydroperoxide (CAS# 80-15-9) 10 lbs. (4.54 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** 

IDH number: 135256

**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: 3,8,11

Product Safety and Regulatory Affairs Prepared by:

Issue date: 06/18/2025

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