

1-800-375-0605 Option 8 for 24/7 Service www.rudolphbros.com rbcsupport@rudbro.com

Safety Data Sheet



Revision Number: 008.0

Issue date: 08/12/2021

1. PRODUCT AND COMPANY IDENTIFICATION

 Product name:
 LOCT

 Product type/use:
 Adhes

 Restriction of Use:
 None i

 Company address:
 Henkel Corporation

 Henkel Corporation
 One Henkel Way

 Rocky Hill, Connecticut 06067

LOCTITE 648 RETAIN CMPND 250ML Adhesive None identified

 IDH number:
 1835918

 Item number:
 1835918

 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

 1-800-424-9300 (toll free) or 1-703-527-3887
 Internet: w ww.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW DANGER: CAUSES SKIN IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE DAMAGE. SUSPECTED OF CAUSING CANCER.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
CARCINOGENICITY	2

PICTOGRAM(S)	

Precautionary Statements

Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated w ork clothing should not be allow ed out of the w orkplace. Wear protective gloves, clothing, eye and face protection.
Response:	IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. Take off contaminated clothing.
Storage:	Store locked up.
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)	CASNumber	Percentage*
Bisphenol A, 2-EO dimethacrylate	41637-38-1	30 - 60
3,3,5 Trimethylcyclohexyl methacrylate	7779-31-9	10 - 30
2-Hydroxyethyl methacrylate	868-77-9	10 - 30

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Cyclohexanol, 4,4'-(1- methylethylidene)bis-, polymer with benzene, 2,4-diisocyanato-1-methyl- ,benzene, 1,3-diisocyanato-2-methyl- an		5 - 10	
Acrylic acid	79-10-7	1 - 5	
Hydroxyalkyl methacrylate	27813-02-1	1 - 5	
Cumene hydroperoxide	80-15-9	0.1 - 1	
1-Acetyl-2-phenylhydrazine	114-83-0	0.1 - 1	
Polyglycol dimethacrylate	109-16-0	0.1 - 1	
methacrylic acid	79-41-4	0.1 - 1	
Cumene	98-82-8	0.1 - 1	

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

4.	FIRST AID MEASURES
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 w ith plenty of w ater (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Get medica 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. Get medical attention.
Symptoms:	See Section 11.
5. F	IRE FIGHTING MEASURES
Extinguis hing media:	Water spray (fog), foam, dry chemical or carbon dioxide.
Special fire fighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	Uncontrolled polymerization may occur at high temperatures resulting in explosions or rupture of storage containers.
Hazardous combustion products:	Oxides of nitrogen. Oxides of carbon. Irritating organic vapours.

6. ACCIDENTAL RELEASE MEASURES

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

Environmental precautions:	Do not allow product to enter sew er or waterways.	
Clean-up methods:	Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to prevent entry into w ater system; w earfull protective equipment during clean- up. Soak up w ith inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, saw dust). 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. Refer to Section 8.
Storage:	For safe storage, store between 4 $^{\circ}$ C(39.2 $^{\circ}$ F) and 38 $^{\circ}$ C (100.4 $^{\circ}$ F) Keep in a cool, w ell ventilated area aw ay from heat, sparks and open flame. Keep container tightly closed until ready for use.
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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
Bisphenol A, 2-EO dimethacrylate	None	None	None	None
3,3,5 Trimethylcyclohexyl methacrylate	None	None	None	None
2-Hydroxyethyl methacrylate	None	None	None	None
Cyclohexanol, 4,4'-(1- methylethylidene)bis-, polymer w ith benzene, 2,4-diisocyanato-1-methyl- ,benzene, 1,3-diisocyanato-2-methyl- an	None	None	None	None
Acrylic acid	2 ppm TWA (SKIN)	None	None	1 ppm TWA 3 ppm STEL (SKIN)
Hydroxyalkyl methacrylate	None	None	None	1 ppm TWA 3 ppm STEL
Cumene hydroperoxide	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None
1-Acetyl-2-phenylhydrazine	None	None	None	None
Polyglycol dimethacrylate	None	None	None	None
methacrylic acid	20 ppm TWA	None	None	None
Cumene	5 ppm TWA	50 ppm (245 mg/m3) PEL (SKIN)	None	None

Engineering controls:

Respiratory protection:

Eye/face protection:

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

Use NIOSH approved respirator if there is potential to exceed exposure ${\sf limit}(s).$

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 show ers 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. Neoprene gloves. Nitrile gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Liquid

Physical state: Color: Odor: Odor threshold: pH: Vapor pressure: Boiling point/range: Melting point/ range: Specific gravity: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - low er: Flammable/Explosive limits - upper: Autoignition temperature: Flam mability: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content: Viscosity: Decomposition temperature:

Green Characteristic Not available. Not applicable < 5 mm hg (80 °F (26.7 °C)) > 300 °F (> 148.9 °C)None Not available. 1.01 1.1 Not available. 93.3 °C (199.94 °F) Not available. Not available. Not available. Not applicable Not available. Slight Not available. < 3 % Not available. Not available.

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	10. STABILITY AND REACTIVITY
Stability:	Stable under normal conditions of storage and use.
otability.	
Hazardous reactions:	None under normal processing. Polymerization may occur at elevated temperature or in the presence of incompatible materials.
Hazardous decomposition products:	Oxides of nitrogen. Oxides of carbon. Irritating organic vapours.
Incom patible materials:	Strong oxidizing agents. Reducing agents. Free radical initiators.
Reactivity:	Not available.
Conditions to avoid:	Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store aw ay from incompatible materials.
	11. TOXICOLOGICAL INFORMATION

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

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Inhalation: Skin contact: Eye contact: Ingestion: Inhalation of vapors or mists of the product may be irritating to the respiratory system. Causes skin irritation. May cause allergic skin reaction. Causes serious eye damage. May cause gastrointestinal tract irritation if sw allowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Bisphenol A, 2-EO dimethacrylate	None	Allergen, Irritant
3,3,5 Trimethylcyclohexyl methacrylate	None	No Records
2-Hydroxyethyl methacrylate	Oral LD50 (Rat) = 11.2 g/kg Oral LD50 (Rat) = 5,050 mg/kg	Irritant, Allergen
Cyclohexanol, 4,4'-(1- methylethylidene)bis-, polymer w ith benzene, 2,4-diisocyanato-1-methyl- ,benzene, 1,3-diisocyanato-2-methyl- an	None	Irritant, Allergen
Acrylic acid	Oral LD50 (Rat) = 33.5 mg/kg Oral LD50 (Mouse) = 2,400 mg/kg Oral LD50 (Rat) = 2.5 g/kg Oral LD50 (Rat) = 193 mg/kg Oral LD50 (Rat) = 1,250 mg/kg Inhalation LC50 (Rat, 4 h) = 3.6 mg/l Inhalation LC50 (Rat, 4 h) = > 3.9 - < 4.8 mg/l Inhalation LC50 (Rat, 4 h) = > 5.1 mg/l	Allergen, Corrosive, Irritant, Kidney, Liver
Hydroxyalkyl methacrylate	None	Irritant, Allergen
Cumene hydroperoxide	None	Allergen, Central nervous system, Corrosive, Irritant, Mutagen
1-Acetyl-2-phenylhydrazine	Oral LD50 (Mouse) = 270 mg/kg	Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity
Polyglycol dimethacrylate	None	Irritant, Allergen
methacrylic acid	Oral LD50 (Mouse) = 1,332 mg/kg Oral LD50 (Mouse) = 1,600 mg/kg Oral LD50 (Mouse) = 1,250 mg/kg Oral LD50 (Rabbit) = 1,200 mg/kg Oral LD50 (Rat) = 1,060 mg/kg Oral LD50 (Rat) = 2,224 mg/kg Dermal LD50 (Rabbit) = 500 mg/kg Inhalation LC50 (Rat, 4 h) = 7.1 mg/l	Corrosive, Irritant, Allergen
Cumene	Oral LD50 (Rat) = 2.91 g/kg Oral LD50 (Rat) = 1,400 mg/kg	Central nervous system, Irritant, Lung

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Bisphenol A, 2-EO dimethacrylate	No	No	No
3,3,5 Trimethylcyclohexyl methacrylate	No	No	No
2-Hydroxyethyl methacrylate	No	No	No
Cyclohexanol, 4,4'-(1- methylethylidene)bis-, polymer with benzene, 2,4-diisocyanato-1-methyl- ,benzene, 1,3-diisocyanato-2-methyl- an	No	No	No
Acrylic acid	No	No	No
Hydroxyalkyl methacrylate	No	No	No
Cumene hydroperoxide	No	No	No
1-Acetyl-2-phenylhydrazine	No	No	No
Polyglycol dimethacrylate	No	No	No
methacrylic acid	No	No	No
Cumene	Reasonably Anticipated to be a Human Carcinogen.	Group 2B	No

12. ECOLOGICAL INFORMATION

Ecological information:

Not available.

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13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Follow all local, state, federal and provincial regulations for disposal.

14. IRANSPORT INFORMATION		
The transport information provided in this section only applies to the material/formulation itself, and is not s package/configuration.		section only applies to the material/formulation itself, and is not specific to an y
	U.S. Department of Transportation Ground (49 CFR)	
	Propershipping name:	RQ, Environmentally hazardous substance, liquid, n.o.s.
	Hazard class or division:	9
	Identification number:	UN 3082
	Packing group:	
	DOT Hazardous Substance(s):	alpha,alpha-Dimethylbenzylhydroperoxide
	International Air Transportation (ICAO/IAT	Ά)
	Propershipping name:	RQ, Environmentally hazardous substance, liquid, n.o.s.
	Hazard class or division:	9
	Identification number:	UN 3082
	Packing group:	W
	Water Transportation (IMO/IMDG)	
	Proper shipping name:	RQ, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	Hazard class or division:	9
	Identification number:	UN 3082
	Packing group:	

15. REGULATORY INFORMATION

United States Regulatory Information

Recommended method of disposal:

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 minimis
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA Section 313:	None above reporting de minimis. Immediate Health, Delayed Health This product contains the follow ing 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). Acrylic acid (CAS# 79-10-7). Cumene (CAS# 98-82-8).
CERCLA Reportable quantity:	Cumene hydroperoxide (CAS#80-15-9) 10 lbs. (4.54 kg)
California Proposition 65:	This product contains a chemical know n in the State of California to cause cancer. This product contains a chemical know n to the State of California to cause birth defects or other reproductive harm.
Canada Regulatory Information	
CEPA DSL/NDSL Status:	Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 3, 8, 11, 15

Prepared by: Product Safety and Regulatory Affairs

Issuedate: 08/12/2021

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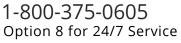
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