



Safety Data Sheet in compliance with Indian Manufacture, Storage and Import of Hazardous Chemical (Amendment) Rules, 2000

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LOCTITE® 242® THREADLOCKER

MSDS-No. : 150233

V001.3

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

LOCTITE® 242® THREADLOCKER

Material: 135355

Relevant identified uses of the substance or mixture and uses advised against

Intended use:
Anaerobic

Identification of manufacturer, importer or distributor:

Manufacturer: Henkel Adhesives Technologies India Pvt. Ltd. D3/D4, MIDC, Jejuri - 412303 India. TEL : +91 9272203768 FAX : +91 2115 253248, Website www.henkel.com

Emergency telephone number

IN HAT: +91 9272203768

In case of any emergency call Poison Information Centre, JSS Hospital, Mysore: Toll Free No: 1800-425-0207/Mobile: +91 8892 42 5667

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification (DPD):

Xi - Irritant
R36/37 Irritating to eyes and respiratory system.
Dangerous for the environment
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements

Label elements (DPD):

Risk phrases:

R36/37 Irritating to eyes and respiratory system.

Safety phrases:

S23 Do not breathe vapour.

S25 Avoid contact with eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S51 Use only in well-ventilated areas.

Risk phrases:

R36/37 Irritating to eyes and respiratory system.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S60 This material and its container must be disposed of as hazardous waste.

Other hazards

R36/37 Irritating to eyes and respiratory system.

SECTION 3: Composition/information on ingredients**Declaration of ingredients according to DPD (EC) No 1999/45:**

Hazardous components CAS-No.	EC Number	content	Classification
Cumene hydroperoxide 80-15-9	201-254-7	>= 0,1 - <= 10 %	T - Toxic; R23 Xn - Harmful; R21/22, R48/20/22 C - Corrosive; R34 O - Oxidizing; R7 N - Dangerous for the environment; R51/53
N,N-Diethyl-p-toluidine 613-48-9	210-345-0	>= 0,1 - <= 5 %	T - Toxic; R23/24/25 R33 R52/53
Cumene 98-82-8	202-704-5	>= 0,1 - <= 5 %	R10 Xn - Harmful; R65 Xi - Irritant; R37 N - Dangerous for the environment; R51/53
2-phenylpropan-2-ol 617-94-7	210-539-5	>= 0,1 - <= 5 %	Xi - Irritant; R36/38 Xn - Harmful; R22

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.

Substances without classification may have community workplace exposure limits available.

Section 4. First aid measures**Inhalation:**

Move to fresh air.

If breathing is difficult, give oxygen.

If breathing has stopped, give artificial respiration. Keep warm and quiet.

Get medical attention.

Skin contact:

Wash with soap and water.

Remove contaminated clothing and footwear.

Wash clothing before reuse.

If symptoms develop and persist, get medical attention.

Eye contact:

Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time.

Get medical attention.

Ingestion:	Do not induce vomiting. Keep individual calm. Get medical attention.
Symptoms/effects, acute and delayed:	Eye, skin, and respiratory disorders.

Section 5. Fire fighting measures

Suitable extinguishing media:	Foam, dry chemical or carbon dioxide.
Specific hazards arising from the chemical:	None
Special protection equipment and precautions for firefighters:	None
Hazardous combustion products:	Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic vapours.

Section 6. Accidental release measures

Environmental precautions:	Do not allow product to enter sewer or waterways.
Clean-up methods:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Store in a partly filled, closed container until disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to containers as contamination may reduce the shelf life of the bulk product.

Section 8. Exposure controls / personal protection

Respiratory protection:	In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387). This recommendation should be matched to local conditions.
Hand protection:	Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): Isobutylene-isoprene rubber (IIR; >= 0.7 mm thickness) This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.
Eye protection:	Safety goggles or safety glasses with side shields.
Body protection:	Wear suitable protective clothing.
Engineering controls:	Ensure good ventilation/suction at the workplace.

SECTION 9: Physical and chemical properties

Appearance:	blue Liquid
Odor:	mild
Odor threshold (CA):	No data available.
pH:	Not applicableNot applicable
Melting point / freezing point:	No data available.
Specific gravity:	1,1
Boiling point:	> 149 °C (> 300.2 °F)
Flash point: (Tagliabue closed cup)	> 93,3 °C (> 199.94 °F)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Lower explosive limit:	No data available.
Upper explosive limit:	No data available.
Vapor pressure: (; 27 °C (80.6 °F))	< 5 mm hg
Vapor density:	No data available.
Density:	No data available.
Solubility:	Solvent: Water, Slight
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
VOC content:	4,48 % 49,3 g/l

Section 10. Stability and reactivity

Reactivity/Incompatible materials:	Strong oxidizing agents. Free radical initiators. Strong reducing agents. Alkalis. Oxygen scavengers.
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	Other polymerization initiators.
	Copper.
	Iron.
	Zinc.
	Aluminum.
	Rust.
Possibility of hazardous reactions:	Will not occur.
Conditions to avoid:	See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).
Hazardous decomposition products:	Oxides of carbon.
	Oxides of sulfur.
	Oxides of nitrogen.
	Irritating organic vapours.

SECTION 11: Toxicological information

Information on toxicological effects

General toxicological information:

No toxicological data available.

Oral toxicity:

May cause irritation to the digestive tract.

This material is considered to have low toxicity if swallowed.

Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Cumene hydroperoxide 80-15-9	LD50	550 mg/kg	oral		rat	not specified
Cumene 98-82-8	LD50	2.700 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
2-phenylpropan-2-ol 617-94-7	LD50	1.300 mg/kg	oral		rat	not specified

Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Cumene 98-82-8	LC50	39 mg/l	inhalation	4 h	rat	not specified

Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Cumene hydroperoxide 80-15-9	LD50	1.200 - 1.520 mg/kg	dermal			not specified
Cumene 98-82-8	LD50	> 10.000 mg/kg	dermal		rabbit	not specified
2-phenylpropan-2-ol 617-94-7	LD50	4.300 mg/kg	dermal		rabbit	not specified

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Cumene hydroperoxide 80-15-9	corrosive		rabbit	Draize Test
Cumene 98-82-8	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Cumene 98-82-8	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Cumene 98-82-8	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Cumene hydroperoxide 80-15-9	positive	bacterial reverse mutation assay (e.g Ames test)	without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Cumene hydroperoxide 80-15-9	negative	dermal		mouse	not specified
Cumene 98-82-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	without		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
Cumene 98-82-8	negative	inhalation: gas		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Cumene hydroperoxide 80-15-9		inhalation: aerosol	6 h/d5 d/w	rat	not specified
Cumene 98-82-8	NOAEL=> 535,8 mg/kg	oral: feed	28 ddaily	rat	not specified
Cumene 98-82-8	NOAEL=125 ppm	inhalation: vapour	14 w6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

SECTION 12: Ecological information**General ecological information:**

Not available.

Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Cumene hydroperoxide 80-15-9	LC50	3,9 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cumene hydroperoxide 80-15-9	EC 50	7 mg/l	Daphnia	24 h	Water flea (Daphnia magna)	
	EC50	18 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Cumene hydroperoxide 80-15-9	ErC50	3,1 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Cumene hydroperoxide 80-15-9	EC10	70 mg/l	Bacteria	30 min		not specified
Cumene 98-82-8	LC50	4,8 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cumene 98-82-8	EC50	4 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Cumene 98-82-8	EC50	2,6 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Cumene 98-82-8	EC10	211 mg/l	Bacteria	24 h		DIN 38412, part 8 (Pseudomonas Zellvermehrungshe mm-Test)

Persistence and degradability

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Cumene hydroperoxide 80-15-9		no data	0 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Cumene 98-82-8		aerobic	86 %	ISO 10708 (BODIS-Test)

Bioaccumulative potential / Mobility in soil

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Cumene hydroperoxide 80-15-9		9,1		calculation		OECD Guideline 305 (Bioconcentration: Flow- through Fish Test)
Cumene hydroperoxide 80-15-9	2,16					not specified
Cumene 98-82-8		35,5		Carassius auratus		OECD Guideline 305 (Bioconcentration: Flow- through Fish Test)
Cumene 98-82-8	3,55				23 °C	OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)
2-phenylpropan-2-ol 617-94-7	1,95					not specified

Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB

Cumene hydroperoxide 80-15-9	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Cumene 98-82-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
2-phenylpropan-2-ol 617-94-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Section 13. Disposal considerations

Waste disposal of product: Dispose of in accordance with local and national regulations.

Disposal for uncleaned package: Disposal must be made according to official regulations.

Section 14. Transport information

General information:

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

Section 15. Regulations - classification and identification

Cumene IBC Code. International Bulk Chemical Code, Chapter 17, Minimum Requirements
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India. List of Hazardous Chemicals (Manufacture, Storage and Import of Hazardous Chemical Rules, Schedule I (Part II))

No reference to national Indian legislation is to be made, as there are no hazardous ingredient present.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

- R10 Flammable.
- R21/22 Harmful in contact with skin and if swallowed.
- R22 Harmful if swallowed.
- R23 Toxic by inhalation.
- R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- R33 Danger of cumulative effects.
- R34 Causes burns.
- R36/38 Irritating to eyes and skin.
- R37 Irritating to respiratory system.
- R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.
- R7 May cause fire.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.

Disclaimer:

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