



Safety Data Sheet in compliance with Indian Manufacture, Storage and Import of Hazardous Chemicals Rules 1989, Rule 17, Schedule 9

Page 1 of 5

LOCTITE 648

MSDS-No. : 153474

V001.1

Revision: 22.02.2011

printing date: 31.03.2018

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE 648
Material: 233495
Product category: Anaerobic Adhesive

Identification of manufacturer, importer or distributor

Manufacturer: Henkel Adhesives Technologies India Pvt. Ltd. D3/D4, MIDC, Jejuri - 412303 India. TEL : +91 2115 300017 / 18 FAX : + 91 2115 253448, Website : www.henkel.com

Emergency information: +91 2115 300017-18

Section 2. Composition / information on ingredients

General chemical description:

Methacrylate resin based product containing Acrylic Acid

Possible risks of product:

R41 Risk of serious damage to eyes.
R37/38 Irritating to respiratory system and skin.
R43 May cause sensitisation by skin contact.

Declaration of ingredients according to (EC) No 1907/2006:

Hazardous components CAS-No.	EINECS	content	Classification
Acrylic acid 79-10-7	201-177-9	> 5 - < 10 %	Xn - Harmful; R20/21/22 R10 C - Corrosive; R35 N - Dangerous for the environment; R50
Methacrylic acid, monoester with propane-1,2-diol 27813-02-1	248-666-3	> 5 - < 10 %	Xi - Irritant; R36, R43
Cumene hydroperoxide 80-15-9	201-254-7	> 0,9 - < 3 %	T - Toxic; R23 Xn - Harmful; R21/22, R48/20/22 O - Oxidizing; R7 C - Corrosive; R34 N - Dangerous for the environment; R51, R53
Cumene 98-82-8	202-704-5	> 0,1 - < 0,5 %	R10 Xn - Harmful; R65 Xi - Irritant; R37 N - Dangerous for the environment; R51, R53

Section 3. Hazards identification

Hazard classification: Xi - Irritant

Routes of entry:	Skin, Inhalation, Eyes
Health Effects:	R41 Risk of serious damage to eyes. R37/38 Irritating to respiratory system and skin. R43 May cause sensitisation by skin contact.
Skin:	Causes skin irritation. May cause allergic skin reaction.
Eye:	Vapors may irritate eyes. Contact with eyes will cause irritation.
Inhalation:	May cause irritation to nose and throat.
Ingestion:	May cause gastrointestinal tract irritation if swallowed.

Section 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:	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. Never give anything by mouth to an unconscious person. Keep individual calm. Get medical attention.

Section 5. Fire fighting measures

Suitable extinguishing media:	Carbon dioxide, foam, powder
Special protection equipment for firefighters:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Hazardous combustion products:	Oxides of carbon, oxides of nitrogen, irritating organic vapors. Sulphur oxides

Section 6. Accidental release measures

Personal precautions:	Avoid skin and eye contact.
Environmental precautions:	Do not allow product to enter sewer or waterways.
Clean-up methods:	Ensure adequate ventilation. 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

Handling:	Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Do not breathe gas/fumes/vapor/spray.
------------------	---

Storage: 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

Ingredient	Type	ppm	mg/m ³	Remarks
ACRYLIC ACID 79-10-7	Recommended exposure limit (REL):	2	6	NIOSH/GUIDE
ACRYLIC ACID 79-10-7	Skin designation:			NIOSH/GUIDE Can be absorbed through the skin.
ACRYLIC ACID 79-10-7	Time Weighted Average (TWA):	2		ACGIH
ACRYLIC ACID 79-10-7	Skin designation:			ACGIH Can be absorbed through the skin.
CUMENE 98-82-8	Recommended exposure limit (REL):	50	245	NIOSH/GUIDE
CUMENE 98-82-8	Skin designation:			NIOSH/GUIDE Can be absorbed through the skin.
CUMENE 98-82-8	Time Weighted Average (TWA):	50		ACGIH

Respiratory protection: Use only in well-ventilated areas.

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): nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): nitrile rubber (NBR; >= 0.4 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: Wear protective glasses.

Body protection: Wear suitable protective clothing.

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

General protection measures: Good industrial hygiene practices should be observed.

Section 9. Physical and chemical properties

Appearance: green
Liquid
Odor: Sharp
Melting point: Not applicable
Relative vapour density: Not available
Specific gravity: 1,1
Auto ignition: Not available
pH: Not available
Boiling point: > 149 °C (> 300.2 °F)
Flash point: > 93,3 °C (> 199.94 °F)
Vapor pressure: < 10 mm hg
Density: 1,13 g/cm³
Solubility: Solvent: Water, Not miscible
VOC content: 5,34 %

Section 10. Stability and reactivity

Conditions to avoid:	Store away from incompatible materials.
Materials to avoid:	Reaction with strong acids. Reacts with strong oxidants.
Hazardous decomposition products:	Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic vapours.
Hazardous polymerization:	Will not occur.

Section 11. Toxicological information

Acute oral product toxicity:	May cause irritation to the digestive tract. LD50 (rat) > 5.000 mg/kg (Estimated)
Acute inhalation product toxicity:	Irritating to respiratory system
Acute dermal product toxicity:	LD50 (rabbit) > 5.000 mg/kg (Estimated)
Skin irritation:	Irritating to the skin.
Eye irritation:	Risk of serious damage to eyes
Sensitizing:	May cause sensitization by skin contact.

Section 12. Ecological information

General ecological information:	Do not empty into drains / surface water / ground water. Precautions required with respect to Environmental Hazards of articles in which this product is used should be considered.
Mobility:	Cured adhesives are immobile.

Section 13. Disposal considerations

Product	
Method of disposal:	Dispose of in accordance with local and national regulations.
Packaging	
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

Indication of danger:	Xi - Irritant
------------------------------	---------------

Risk phrases:	R41 Risk of serious damage to eyes. R37/38 Irritating to respiratory system and skin. R43 May cause sensitisation by skin contact.
Safety phrases:	S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 After contact with skin, wash immediately with plenty of water and soap. S37/39 Wear suitable gloves and eye/face protection. S51 Use only in well-ventilated areas.
Acrylic acid	OECD. Program to investigate the potential hazards of high production volume chemicals (HPV), including decisions on the need for further work.
Hydroxypropyl methacrylate	OECD. Program to investigate the potential hazards of high production volume chemicals (HPV), including decisions on the need for further work.
Cumene hydroperoxide	OECD. Program to investigate the potential hazards of high production volume chemicals (HPV), including decisions on the need for further work.
Cumene	OECD. Program to investigate the potential hazards of high production volume chemicals (HPV), including decisions on the need for further work. OECD. Program to investigate the potential hazards of high production volume chemicals (HPV), including decisions on the need for further work. India. List of Hazardous Chemicals (Manufacture, Storage and Import of Hazardous Chemical Rules, Schedule I (Part II).

Section 16. Other information

Issue date:	31.03.2018
Prepared by:	Sampada Bhat, Manager, Product Safety & Regulatory Affairs.
Disclaimer:	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.