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

LOCTITE SF 7649 PRIMER known as Loctite(R) 7649 Primer N

MSDS-No. : 153557
V001.2
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier
LOCTITE SF 7649 PRIMER known as Loctite(R) 7649 Primer N
Material: 135286

Relevant identified uses of the substance or mixture and uses advised against
Intended use:
Accelerator

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
+91 9272203768

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification (DPD):
F - Highly flammable
R11 Highly flammable.
Xi - Irritant
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Label elements

Label elements (DPD):

Risk phrases:
R11 Highly flammable.
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

Safety phrases:
S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe vapour.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 Wear suitable gloves.
S51 Use only in well-ventilated areas.

Other hazards
R11 Highly flammable.
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

SECTION 3: Composition/information on ingredients

Declaration of ingredients according to DPD (EC) No 1999/45:

Hazardous components CAS-No.	EC Number	content	Classification
Acetone 67-64-1	200-662-2	>= 79 - <= 99 %	F - Highly flammable; R11 Xi - Irritant; R36 R66 R67
2-Ethylhexanoic acid 149-57-5	205-743-6	>= 0,1 - <= 10 %	Toxic for reproduction - category 3.; R63
2-ethylhexanoic acid, copper salt 22221-10-9	244-846-0	>= 0,1 - <= 10 %	Xn - Harmful; R63

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 symptoms persist, seek medical advice.

Skin contact: Rinse with running water and soap.
Seek medical advice.

Eye contact: Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion: Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.
Seek medical advice.

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: Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back.

Special protection equipment and precautions 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 vapours.

Section 6. Accidental release measures

Personal precautions: Avoid skin and eye contact.
Ensure adequate ventilation.

Environmental precautions: Do not let product enter drains.

Clean-up methods: For small spills wipe up with paper towel and place in container for disposal.
For large spills absorb onto inert absorbent material and place in sealed container for disposal.

SECTION 7: Handling and storage

Precautions for safe handling

Use only in well-ventilated areas.
Vapours should be extracted to avoid inhalation.
Keep away from sources of ignition - no smoking.
Avoid skin and eye contact.
See advice in section 8

Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated place.
Keep away from heat and direct sunlight.

Section 8. Exposure controls / personal protection

Ingredient [Regulated substance]	Value type	ppm	mg/m³	Remarks
ACETONE 67-64-1	Time Weighted Average (TWA):	750	1.780	IN OEL

Respiratory protection: Use only in well-ventilated areas.
Use filter A if vapours/aerosols occur which may be inhaled.

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: Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.

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

SECTION 9: Physical and chemical properties

Appearance:	green liquid
Odor:	Acetone
Odor threshold (CA):	No data available.
pH:	Not available.
Melting point / freezing point:	Not applicable
Specific gravity:	0,7936
Boiling point:	56 °C (132.8 °F)
Flash point:	-19 °C (-2.2 °F) Estimated
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:	172 mm hg
(; 20 °C (68 °F))	
Vapor density:	2,0
Density:	0,7936 g/cm3
Solubility:	Solvent: Water, Miscible
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	485 °C
Decomposition temperature:	
Viscosity:	No data available.
VOC content:	1,48 % 11,7 g/l

Section 10. Stability and reactivity

Reactivity/Incompatible materials:	Strong oxidizing agents. Reducing agents. Acids. Alkali metals.
Possibility of hazardous reactions:	Will not occur.
Conditions to avoid:	Heat, flames, sparks and other sources of ignition.
Hazardous decomposition products:	Oxides of nitrogen. Oxides of carbon. Irritating organic vapours.

SECTION 11: Toxicological information

Information on toxicological effects

Oral toxicity:
This material is considered to have low toxicity if swallowed.

Inhalative toxicity:
May cause headache and dizziness.

Skin irritation:
Solvent may remove essential oils from the skin making it susceptible to attack from other chemicals.
The product is irritant to skin and mucous membranes.

Eye irritation:
Irritating to eyes.

Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Acetone 67-64-1	LD50	5.800 mg/kg	oral		rat	
2-Ethylhexanoic acid 149-57-5	LD50	3.640 mg/kg	oral		rat	BASF Test

Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Acetone 67-64-1	LC50	76 mg/l	inhalation	4 h	rat	

Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Acetone 67-64-1	LD50	> 15.688 mg/kg	dermal		rabbit	
2-Ethylhexanoic acid 149-57-5	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2-Ethylhexanoic acid 149-57-5	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Acetone 67-64-1	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2-Ethylhexanoic acid 149-57-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Acetone 67-64-1	not sensitising	Guinea pig maximisation test	guinea pig	Not specified

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Acetone 67-64-1	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	without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Acetone 67-64-1	negative	oral: drinking water		mouse	
2-Ethylhexanoic acid 149-57-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		Ames Test

Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Acetone 67-64-1	NOAEL=900 mg/kg	oral: drinking water	13 wdaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

SECTION 12: Ecological information

Toxicity

Ecotoxicity:
Do not empty into drains / surface water / ground water.

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Acetone 67-64-1	LC50	8.120 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Acetone 67-64-1	EC50	8.800 mg/l	Daphnia	48 h	Daphnia pulex	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Acetone 67-64-1	NOEC	530 mg/l	Algae	8 d	Microcystis aeruginosa	DIN 38412-09
Acetone 67-64-1	EC10	1.000 mg/l	Bacteria	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
Acetone 67-64-1	NOEC	2.212 mg/l	chronic Daphnia	28 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
2-Ethylhexanoic acid 149-57-5	LC50	270 mg/l	Fish	96 h	Lepomis gibbosus	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-Ethylhexanoic acid 149-57-5	EC50	85,4 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Ethylhexanoic acid 149-57-5	EC50	61 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
	EC10	33 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Ethylhexanoic acid 149-57-5	EC10	72 mg/l	Bacteria	17 h		DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)

Persistence and degradability

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Acetone 67-64-1	readily biodegradable	aerobic	81 - 92 %	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)
2-Ethylhexanoic acid 149-57-5		aerobic	> 70 %	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
	readily biodegradable	aerobic	99 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)

Bioaccumulative potential / Mobility in soil

Mobility:
The product evaporates readily.

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Acetone 67-64-1	-0,24					OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
2-Ethylhexanoic acid 149-57-5	2,7					OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

Results of PBT and vPvB assessment

Hazardous components **CAS-No.**	**PBT/vPvB**
Acetone 67-64-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
2-Ethylhexanoic acid 149-57-5	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

Road transport ADR:

Class:	3
Packing group:	II
Classification code:	F1
Hazard ident. number:	33
UN no.:	1090
Label:	3
Technical name:	ACETONE

Railroad transport RID:

Class:	3
Packing group:	II
Classification code:	F1
Hazard ident. number:	33
UN no.:	1090
Label:	3
Technical name:	ACETONE

Inland water transport ADN:

Class:	3
Packing group:	II
Classification code:	F1
Hazard ident. number:	
UN no.:	1090
Label:	3
Technical name:	ACETONE

Marine transport IMDG:

Class:	3
Packing group:	II
UN no.:	1090
Label:	3
EmS:	F-E ,S-D
Seawater pollutant:	-
Proper shipping name:	ACETONE

Air transport IATA:

Class:	3
Packing group:	II
Packing instructions (passenger)	353
Packing instructions (cargo)	364
UN no.:	1090
Label:	3
Proper shipping name:	Acetone

Section 15. Regulations - classification and identification

Acetone	IBC Code. International Bulk Chemical Code, Chapter 18, Exempted Products India. List of Hazardous Chemicals (Manufacture, Storage and Import of Hazardous Chemical Rules, Schedule I (Part II). OECD. Program to investigate the potential hazards of high production volume chemicals (HPV), including decisions on the need for further work.
2-Ethylhexanoic acid	IBC Code. International Bulk Chemical Code, Chapter 17, Minimum Requirements IBC Code. International Bulk Chemical Code, Chapter 17, Minimum Requirements IBC Code. International Bulk Chemical Code, Chapter 17, Minimum Requirements OECD. Program to investigate the potential hazards of high production volume chemicals (HPV), including decisions on the need for further work.
2-ethylhexanoic acid, copper salt	India. List of Hazardous Chemicals (Manufacture, Storage and Import of Hazardous Chemical Rules, Schedule I (Part II).

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:

R11 Highly flammable.
R36 Irritating to eyes.
R63 Possible risk of harm to the unborn child.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

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.

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