



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

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LOCTITE HY 4090 CR50G PART A

SDS No. : 795953

V001.0

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

#### Product identifier

LOCTITE HY 4090 CR50G PART A

Material: 2946102

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

Intended use:

Adhesive

#### Identification of manufacturer, importer or distributor:

Henkel Adhesives Tech. India Pvt Ltd.

L&T Seawoods, Grand Central 401, B Wing, 4th Floor, Tower 1

Seawoods

400706 Navi Mumbai, Maharashtra

India

Phone: +91 022-7130-1112

Fax-no.: +91 022-7130-1400

#### Emergency telephone number

In case of any emergency call Poison Information Centre, JSS Hospital, Mysore: 24x7 Helpline No: +916363539153/ Toll Free No: 18004250207/ Mobile: +91 9901218640.

### SECTION 2: Hazards identification

#### Classification of the substance or mixture

##### Classification (DPD):

Xi - Irritant

R36/37/38 Irritating to eyes, respiratory system and skin.

#### Label elements

##### Label elements (DPD):

##### Risk phrases:

R36/37/38 Irritating to eyes, respiratory system and skin.

##### Safety phrases:

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

S37 Wear suitable gloves.

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

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

Hazardous components CAS-No.	EC Number	content	Classification
Ethyl 2-cyanoacrylate 7085-85-0	230-391-5	>= 70 - <= 80 %	Xi - Irritant; R36/37/38
Lithium tetrafluoroborate, anhydrous 14283-07-9	238-178-9	>= 0,01 - <= 3 %	R31 C - Corrosive; R34 Xn - Harmful; R20/21/22

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**

<b>Inhalation:</b>	Move to fresh air. If symptoms persist, seek medical advice.
<b>Skin contact:</b>	If lips are accidentally stuck together apply warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips apart with direct opposing action. Cyanoacrylates give off heat on solidification. In rare cases a large drop will generate enough heat to cause a burn. Burns should be treated normally after the adhesive has been removed from the skin. Do not pull bonded skin apart. It may be gently peeled apart using a blunt object such as a spoon, preferably after soaking in warm soapy water.
<b>Eye contact:</b>	If the eye is bonded closed, release eyelashes with warm water by covering with wet pad. Keep eye covered until debonding is complete, usually within 1-3 days. Cyanoacrylate will bond to eye protein and will cause periods of weeping which will help to debond the adhesive. Do not force eye open. Medical advice should be sought in case solid particles of cyanoacrylate trapped behind the eyelid cause any abrasive damage.
<b>Ingestion:</b>	Ensure that breathing passages are not obstructed. The product will polymerise immediately in the mouth making it almost impossible to swallow. Saliva will slowly separate the solidified product from the mouth (several hours).

**Section 5. Fire fighting measures**

<b>Suitable extinguishing media:</b>	Foam, extinguishing powder, carbon dioxide. Fine water spray
<b>Improper extinguishing media:</b>	None known
<b>Specific hazards arising from the chemical:</b>	In the event of a fire, carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ) and nitrogen oxides (NO <sub>x</sub> ) can be released.
<b>Special protection equipment and precautions for firefighters:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
<b>Additional fire fighting advice:</b>	In case of fire, keep containers cool with water spray.

**Section 6. Accidental release measures**

<b>Personal precautions:</b>	Avoid contact with skin and eyes. Wear protective equipment. Ensure adequate ventilation.
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- Environmental precautions:** Do not empty into drains / surface water / ground water.
- Clean-up methods:** Dispose of contaminated material as waste according to Section 13.  
Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste.

## SECTION 7: Handling and storage

### Precautions for safe handling

- Avoid skin and eye contact.
- See advice in section 8
- Ventilation (low level) is recommended when using large volumes
- Use of dispensing equipment is recommended to minimise the risk of skin or eye contact

## Section 8. Exposure controls / personal protection

Ingredient [Regulated substance]	Value type	ppm	mg/m <sup>3</sup>	Remarks
FLUORIDES (AS F) 14283-07-9	Time Weighted Average (TWA):		2,5	IN OEL

- Respiratory protection:** Ensure adequate ventilation.  
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area  
Filter type: A (EN 14387)
- 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;  $\geq$  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;  $\geq$  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.  
  
Polyethylene or polypropylene gloves are recommended when using large volumes.  
Do not use PVC, rubber or nylon gloves.  
Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.
- Eye protection:** Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.  
Protective eye equipment should conform to EN166.
- Body protection:** Wear suitable protective clothing.  
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.
- Engineering controls:** Ensure good ventilation/extraction.

**SECTION 9: Physical and chemical properties**

<b>Appearance:</b>	No data available.
<b>Odor:</b>	No data available.
<b>Odor threshold (CA):</b>	No data available.
<b>pH:</b>	Not applicable, Product reacts with water.
<b>Melting point / freezing point:</b>	No data available.
<b>Specific gravity:</b>	No data available.
<b>Boiling point:</b>	> 149 °C (> 300.2 °F)
<b>Flash point:</b>	80 - 93 °C (176 - 199.4 °F)
(None)	
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Lower explosive limit:</b>	No data available.
<b>Upper explosive limit:</b>	No data available.
<b>Vapor pressure:</b>	
(no method; 50 °C (122 °F))	Not available.< 700 mbar
<b>Vapor density:</b>	No data available.
<b>Density:</b>	1,1 g/cm <sup>3</sup>
<b>Solubility:</b>	
<b>Partition coefficient: n-octanol/water:</b>	No data available.
<b>Auto ignition:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	4.000 - 10.000 mPa.s
(Cone and plate; 25 °C (77 °F); Shear gradient: 100 s <sup>-1</sup> ; Method: ;; LCT STM 740; cone & plate viscosity)	
<b>VOC content:</b>	No data available.

**Section 10. Stability and reactivity**

<b>Reactivity/Incompatible materials:</b>	Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.
<b>Chemical stability:</b>	See section reactivity.
<b>Conditions to avoid:</b>	Stable under recommended storage conditions.
<b>Hazardous decomposition products:</b>	Stable under normal conditions of storage and use. None if used for intended purpose.

**SECTION 11: Toxicological information****Information on toxicological effects****General toxicological information:**

No experimental toxicological data on the preparation as such is available.

**Acute oral toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	LD50	> 5.000 mg/kg	oral		rat	equivalent or similar to OECD Guideline 423 (Acute Oral toxicity)
Lithium tetrafluoroborate, anhydrous 14283-07-9	LD50	500 mg/kg	oral		rat	OECD Guideline 423 (Acute Oral toxicity)

**Acute dermal toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	LD50	> 2.000 mg/kg	dermal		rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
Lithium tetrafluoroborate, anhydrous 14283-07-9	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
Ethyl 2-cyanoacrylate 7085-85-0	slightly irritating	24 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

Hazardous components CAS-No.	Result	Test type	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	not sensitising	Skin sensitisation	guinea pig	not specified

**Germ cell mutagenicity:**

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to 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)

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

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

**Toxicity**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Lithium tetrafluoroborate, anhydrous 14283-07-9	LC50	> 100 mg/l	Fish	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Lithium tetrafluoroborate, anhydrous 14283-07-9	EC50	35,53 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Lithium tetrafluoroborate, anhydrous 14283-07-9	EC50	48,32 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC	10 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Lithium tetrafluoroborate, anhydrous 14283-07-9	EC50	> 1.000 mg/l	Bacteria	3 h	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

**Persistence and degradability**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Ethyl 2-cyanoacrylate 7085-85-0	not readily biodegradable.	aerobic	57 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

**Bioaccumulative potential / Mobility in soil**

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Ethyl 2-cyanoacrylate 7085-85-0	0,776				22 °C	EU Method A.8 (Partition Coefficient)

**Results of PBT and vPvB assessment**

Hazardous components CAS-No.	PBT/vPvB
Ethyl 2-cyanoacrylate 7085-85-0	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:** Dispose of in accordance with local and national regulations.

**Section 14. Transport information****Road transport ADR:**

Not dangerous goods

**Railroad transport RID:**

Not dangerous goods

**Inland water transport ADN:**

Not dangerous goods

**Marine transport IMDG:**

Not dangerous goods

**Air transport IATA:**

Class:	9
Packing group:	III
Packing instructions (passenger)	964
Packing instructions (cargo)	964
UN no.:	3334
Label:	9
Proper shipping name:	Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)
Additional Information:	Primary packs containing less than 500ml are unregulated by this mode of transport and may be shipped unrestricted.

**Section 15. Regulations - classification and identification**

Lithium tetrafluoroborate,  
anhydrous

Global Automotive Declarable Substances List (GADSL), Version 2

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:

- R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- R31 Contact with acids liberates toxic gas.
- R34 Causes burns.
- R36/37/38 Irritating to eyes, respiratory system and skin.

**Further information:**

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**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:**

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.

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