



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

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LOCTITE EA E-30 CL RESIN

SDS No. : 157210

V001.3

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

#### Product identifier

LOCTITE EA E-30 CL RESIN

Material: 701995

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

Intended use:

Epoxy resin

#### 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 HAT: +91 9272203768

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

R36/38 Irritating to eyes and skin.

Xi - Irritant

R43 May cause sensitisation by skin contact.

N - Dangerous for the

environment

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Label elements

**Label elements (DPD):**

## Risk phrases:

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Safety phrases:

S24 Avoid contact with skin.

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

S37 Wear suitable gloves.

S57 Use appropriate container to avoid environmental contamination.

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
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6		>= 70 - <= 100 %	Xi - Irritant; R36/38 Xi - Irritant; R43 N - Dangerous for the environment; R51/53
[3-(2,3- Epoxypropoxy)propyl]trimethoxysilane 2530-83-8	219-784-2	>= 0,01 - <= 10 %	Xi - Irritant; R41

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 not breathing, give artificial respiration.  
If symptoms develop and persist, get medical attention.

**Skin contact:**

Immediately flush skin with plenty of water (using soap, if available).  
Remove contaminated clothing and footwear.  
If symptoms develop and persist, get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.

**Eye contact:**

Immediately flush eyes with plenty of water for at least 15 minutes.  
Get medical attention.

**Ingestion:**

DO NOT induce vomiting unless directed to do so by medical personnel.  
Never give anything by mouth to an unconscious person.  
Get medical attention.

**Section 5. Fire fighting measures****Suitable extinguishing media:**

Water spray (fog), foam, dry chemical or carbon dioxide.

- Specific hazards arising from the chemical:** In case of fire, keep containers cool with water spray.  
Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.
- 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.  
Phenolics.  
Irritating organic fragments.

### Section 6. Accidental release measures

- Personal precautions:** Avoid contact with skin and eyes.  
Ensure adequate ventilation.  
Wear protective equipment.
- Environmental precautions:** Do not empty into drains / surface water / ground water.
- Clean-up methods:** Remove all sources of ignition.  
Dispose of contaminated material as waste according to Section 13.  
Wear appropriate personal protective equipment.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Scrape up spilled material and place in a closed container for 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.  
Use only with adequate ventilation.  
Keep container closed.

### Section 8. Exposure controls / personal protection

Ingredient [Regulated substance]	Value type	ppm	mg/m <sup>3</sup>	Remarks
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<b>Respiratory protection:</b>	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)
<b>Hand protection:</b>	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.
<b>Eye protection:</b>	Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.
<b>Body protection:</b>	Wear protective equipment. Suitable protective clothing apron
<b>Engineering controls:</b>	Ensure good ventilation/extraction.
<b>Hygienic measures:</b>	Keep away from food, beverages and animal feed. Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working. Good industrial hygiene practices should be observed.

## SECTION 9: Physical and chemical properties

<b>Appearance:</b>	Clear, Yellow Liquid
<b>Odor:</b>	Faint, Epoxy
<b>Odor threshold (CA):</b>	No data available.
<b>pH:</b>	No data available.
<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>	> 93 °C (> 199.4 °F) Estimated
<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 data available.
<b>Vapor density:</b>	No data available.
<b>Density:</b>	No data available.
<b>Solubility:</b>	Solvent: , Negligible
<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>	No data available.
<b>VOC content:</b>	< 1 % < 10 g/l

**Section 10. Stability and reactivity**

<b>Reactivity/Incompatible materials:</b>	Strong oxidizing agents. Strong acids and strong bases. Amines. None if used properly.
<b>Chemical stability:</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions:</b>	Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization.
<b>Conditions to avoid:</b>	Excessive heat. Store away from incompatible materials. Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Failure to observe these precautions may result in excessive heat build-up causing an exotherm.
<b>Hazardous decomposition products:</b>	Oxides of carbon. Phenolics.

**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
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700) 25068-38-6	LD50	> 2.000 mg/kg	oral		rat	OECD Guideline 420 (Acute Oral Toxicity)
[3-(2,3-Epoxypropoxy)propyl]tri methoxysilane 2530-83-8	LD50	8.025 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)

**Acute inhalative toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
[3-(2,3-Epoxypropoxy)propyl]tri methoxysilane 2530-83-8	LC50	> 5,3 mg/l	inhalation	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

**Acute dermal toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute Dermal Toxicity)
[3-(2,3- Epoxypropoxy)propyl]tri methoxysilane 2530-83-8	LD50	4.250 mg/kg	dermal		rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	moderately irritating	24 h	rabbit	Draize Test
[3-(2,3- Epoxypropoxy)propyl]tri methoxysilane 2530-83-8	not irritating	24 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
[3-(2,3- Epoxypropoxy)propyl]tri methoxysilane 2530-83-8	highly irritating	20 s	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

Hazardous components CAS-No.	Result	Test type	Species	Method
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
[3-(2,3- Epoxypropoxy)propyl]tri methoxysilane 2530-83-8	not sensitising	Buehler 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
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay)
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	negative	oral: gavage		mouse	not specified
[3-(2,3-Epoxypropoxy)propyl]tri methoxysilane 2530-83-8	A mutagenic potential can not be excluded.	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
[3-(2,3-Epoxypropoxy)propyl]tri methoxysilane 2530-83-8	A mutagenic potential can not be excluded.			mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

**Carcinogenicity:**

Hazardous components CAS-No.	Result	Species	Sex	Exposure time/Frequency of treatment	Route of application	Method
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	not carcinogenic	mouse	male	2 y daily	dermal	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	not carcinogenic	rat	male/female	2 y daily	oral: gavage	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

**Repeated dose toxicity**

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	NOAEL=50 mg/kg	oral: gavage	14 w/daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
[3-(2,3-Epoxypropoxy)propyl]tri methoxysilane 2530-83-8	NOAEL=500 mg/kg	oral: unspecified	28 d	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)
[3-(2,3-Epoxypropoxy)propyl]tri methoxysilane 2530-83-8	NOAEL=0,225 mg/kg	inhalation	14 d	rat	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)

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

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

**Toxicity****Ecotoxicity:**

Toxic to aquatic organisms

May cause long-term adverse effects in the aquatic environment.

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	LC50	1,75 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	EC50	1,7 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	EC50	> 11 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC	4,2 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	IC50	> 100 mg/l	Bacteria	3 h	activated sludge, industrial	other guideline:
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	NOEC	0,3 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
[3-(2,3- Epoxypropoxy)propyl]trimeth oxysilane 2530-83-8	LC50	55 mg/l	Fish	96 h	Cyprinus carpio	EU Method C.1 (Acute Toxicity for Fish)
[3-(2,3- Epoxypropoxy)propyl]trimeth oxysilane 2530-83-8	EC50	324 mg/l	Daphnia	48 h	Simocephalus vetulus	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
[3-(2,3- Epoxypropoxy)propyl]trimeth oxysilane 2530-83-8	EC50	119 mg/l	Algae	7 d	Anabaena flos-aquae	OECD Guideline 201 (Alga, Growth Inhibition Test)
	EC10	40 mg/l	Algae	7 d	Anabaena flos-aquae	OECD Guideline 201 (Alga, Growth Inhibition Test)
[3-(2,3- Epoxypropoxy)propyl]trimeth oxysilane 2530-83-8	NOEC	> 100 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
[3-(2,3- Epoxypropoxy)propyl]trimeth oxysilane 2530-83-8	NOEC	100 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

**Persistence and degradability**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
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reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	not readily biodegradable.	aerobic	5 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane 2530-83-8	not readily biodegradable.	aerobic	37 %	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)

**Bioaccumulative potential / Mobility in soil**

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	3,242				25 °C	EU Method A.8 (Partition Coefficient)
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane 2530-83-8	0,5				20 °C	QSAR (Quantitative Structure Activity Relationship)

**Results of PBT and vPvB assessment**

Hazardous components CAS-No.	PBT/vPvB
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight≤700) 25068-38-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane 2530-83-8	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:**

Class: 9  
Packing group: III  
Classification code: M6  
Hazard ident. number: 90  
UN no.: 3082  
Label: 9  
Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A Epichlorhydrin resin)

**Railroad transport RID:**

Class: 9  
Packing group: III  
Classification code: M6  
Hazard ident. number: 90  
UN no.: 3082  
Label: 9  
Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A Epichlorhydrin resin)

**Inland water transport ADN:**

Class:	9
Packing group:	III
Classification code:	M6
Hazard ident. number:	
UN no.:	3082
Label:	9
Technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A Epichlorhydrin resin)

**Marine transport IMDG:**

Class:	9
Packing group:	III
UN no.:	3082
Label:	9
EmS:	F-A ,S-F
Seawater pollutant:	Marine pollutant
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A Epichlorhydrin resin)

**Air transport IATA:**

Class:	9
Packing group:	III
Packing instructions (passenger)	964
Packing instructions (cargo)	964
UN no.:	3082
Label:	9
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin resin)

**Further information for transport:**

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

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

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700)	OECD. Program to investigate the potential hazards of high production volume chemicals (HPV), including decisions on the need for further work. International Living Future Institute. Red list
[3-(2,3-Epoxypropoxy)propyl]trimethoxysilane	OECD. Program to investigate the potential hazards of high production volume chemicals (HPV), including decisions on the need for further work.

**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:

R36/38 Irritating to eyes and skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Further information:**

Dear Customer,

Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative.

We recommend to use a non-personal email address (e.g. SDS@your\_company.com).

**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.

This Safety Data Sheet has been generated based on the Indian Manufacture, Storage and Import of Hazardous Chemical (Amendment) Rules, 2000 and provides information in accordance with Indian law only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. For assistance, please contact Henkel Product safety and Regulatory affairs for additional assistance.