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

LOCTITE 460 INSTANT ADHESIVE known as 460 PRISM 20G IN EN/JP/CH

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

Product identifier

LOCTITE 460 INSTANT ADHESIVE known as 460 PRISM 20G IN EN/JP/CH

Material: 271857

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

Intended use:
Cyanoacrylate

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):

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

Label elements

Label elements (DPD):

Risk phrases:

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

Safety phrases:

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
Bismaleimide 105391-33-1		>= 1 - <= 10 %	N - Dangerous for the environment; R50/53
Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane 119-47-1	204-327-1	>= 0,01 - <= 1 %	R53 Toxic for reproduction - category 3.; Xn - Harmful; R62

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: 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.

Eye contact: 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.

Ingestion: 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

Suitable extinguishing media: Foam, extinguishing powder, carbon dioxide.
Fine water spray

Improper extinguishing media: None known

Specific hazards arising from the chemical: In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

Special protection equipment and precautions for firefighters: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional fire fighting advice: In case of fire, keep containers cool with water spray.

Section 6. Accidental release measures

Personal precautions: Avoid contact with skin and eyes.
Wear protective equipment.
Ensure adequate ventilation.

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

Conditions for safe storage, including any incompatibilities

90 d
Storage at 2 to 8°C is recommended.

Section 8. Exposure controls / personal protection

Ingredient [Regulated substance]	Value type	ppm	mg/m³	Remarks

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; >= 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.

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

Appearance:	No data available.
Odor:	No data available.
Odor threshold (CA):	No data available.
pH:	Not applicable
Melting point / freezing point:	Not applicable, Product is a liquid
Specific gravity:	No data available.
Boiling point:	> 149 °C (> 300.2 °F)
Flash point:	80 °C (176 °F)
(None)	
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:	< 0,2 mm hg
(NoneNoneno method; 50 °C (122 °F))	< 30,0000000 Pa
	< 700 mbar
Vapor density:	No data available.
Density:	1,1 g/cm3
Solubility:	Solvent: , Polymerises in presence of water.
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	No data available.
Decomposition temperature:	No data available.
Viscosity:	25,0 - 55,0 mPa.s25,0 - 55,0 mPa.s
(Cone and plate; Shear gradient: 3.000 s-1; Method: ;; LCT STM 740; cone & plate viscosity)(Cone and plate; Shear gradient: 3.000 s-1; Method: ;; LCT STM 740; cone & plate viscosity)	
VOC content:	No data available.

Section 10. Stability and reactivity

Reactivity/Incompatible materials:	Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols. See section reactivity.
Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	Stable under normal conditions of storage and use.
Hazardous decomposition products:	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
Bismaleimide 105391-33-1	LD50	> 5.000 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane 119-47-1	LD50	> 10.000 mg/kg	oral		rat	not specified

Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane 119-47-1	LD50	> 10.000 mg/kg	dermal		rat	not specified

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Bismaleimide 105391-33-1	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Bismaleimide 105391-33-1	not irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Bismaleimide 105391-33-1	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
Bismaleimide 105391-33-1	negative	bacterial gene mutation assay	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane 119-47-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)

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
Bismaleimide 105391-33-1	LC50	0,5 mg/l	Fish	48 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)
Bismaleimide 105391-33-1	EC50	> 1 - 10 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane 119-47-1	LC50	Toxicity > Water solubility	Fish	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)
Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane 119-47-1	EC50	Toxicity > Water solubility	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane 119-47-1	EC50	Toxicity > Water solubility	Algae	72 h	Pseudokirchneriella subcapitata (reported as Selenastrum capricornutum)	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC	Toxicity > Water solubility	Algae	72 h	Pseudokirchneriella subcapitata (reported as Selenastrum capricornutum)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane 119-47-1	EC50	Toxicity > Water solubility	Bacteria	3 h	activated sludge	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane 119-47-1	NOEC	Toxicity > Water solubility	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
Bismaleimide 105391-33-1	not readily biodegradable.	aerobic	> 0 - < 60 %	OECD 301 A - F
Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane 119-47-1	under test conditions no biodegradation observed	aerobic	0 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

Bioaccumulative potential / Mobility in soil

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Bismaleimide 105391-33-1		674		not specified		OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane 119-47-1		320 - 780	60 d	Cyprinus carpio		OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)
Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane 119-47-1	6,25				20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB
Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane 119-47-1	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:
Not dangerous goods

Section 15. Regulations - classification and identification

Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane	IAEG. Aerospace and Defense Declarable Substances List IAEG. Aerospace and Defense Declarable Substances List IAEG. Aerospace and Defense Declarable Substances List IAEG. Aerospace and Defense Declarable Substances List

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:
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53 May cause long-term adverse effects in the aquatic environment.
R62 Possible risk of impaired fertility.

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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