

Safety Data Sheet

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LOCTITE 460 LOW ODOUR/BLOOM INST ADHESIVE known

as Loctite 460 SDS No. : 434271 V001.1

Date of issue: 04.09.2020

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

Product name: LOCTITE 460 LOW ODOUR/BLOOM INST ADHESIVE known as Loctite 460

Intended use: Cyanoacrylate

Supplier:

Henkel Australia Pty Ltd 135-141 Canterbury Road Kilsyth, Victoria, 3137

Australia

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

Hazard ClassHazard CategoryFlammable liquidsCategory 4Acute hazards to the aquaticCategory 3

environment

Chronic hazards to the aquatic

environment

Category 3

Signal word: Warning

Hazard statement(s): H227 Combustible liquid.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P273 Avoid release to the environment.

P280 Wear protective gloves, eye protection, and face protection.

Response: P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for

extinction.

Disposal: P501 Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations.

Dangerous Goods information:

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

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Section 3. Composition / information on ingredients

General chemical description: Mixture

Type of preparation: Cyanoacrylate Adhesive

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane	119-47-1	< 3 %
non hazardous ingredients~		< 100 %

Section 4. First aid measures

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).

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.

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. 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.

Eyes: If the eye is bonded closed, release eyelashes with warm water by covering with wet pad.

Cyanoacrylate will bond to eye protein and will cause periods of weeping which will help

to debond the adhesive.

Keep eye covered until debonding is complete, usually within 1-3 days.

Do not force eye open. Medical advice should be sought in case solid particles of

cyanoacrylate trapped behind the eyelid cause any abrasive damage.

Inhalation: Move to fresh air, consult doctor if complaint persists.

First Aid facilities: Eye wash and safety shower

Normal washroom facilities

Medical attention and special

treatment:

Surgery is not necessary to separate accidentally bonded tissues. Experience has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has

caused thermal bums they should be treated symptomatically after adhesive is removed.

Treat symptomatically.

Section 5. Fire fighting measures

Suitable extinguishing media: Foam, extinguishing powder, carbon dioxide.

Fine water spray

Improper extinguishing media: None known

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Decomposition products in case of Thermal decomposition can lead to release of irritating gases and vapors.

fire:

Oxides of carbon, oxides of nitrogen, irritating organic vapors.

Particular danger in case of fire: In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released.

In case of fire, keep containers cool with water spray.

Special protective equipment for

fire-fighters:

Wear full protective clothing.

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

Section 6. Accidental release measures

Personal precautions: Ensure adequate ventilation.

Avoid contact with skin and eyes. Wear protective equipment.

Environmental precautions: Do not empty into drains / surface water / ground water.

Clean-up methods: 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.

Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Precautions for safe handling: Ventilation (low level) is recommended when using large volumes

Use of dispensing equipment is recommended to minimise the risk of skin or eye contact Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash

thoroughly after handling.

Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal

burns.

See advice in section 8

Conditions for safe storage: For optimum shelf life store in original containers under refrigerated conditions at 2 - 8°C

(35.6 - 46.4 °F)

Section 8. Exposure controls / personal protection

National exposure standards:

Engineering controls: Ensure good ventilation/extraction.

Eye protection: Wear protective glasses.

Skin protection: Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or

cotton.

The use of chemical resistant gloves such as Nitrile is recommended.

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.

Respiratory protection: Ensure adequate ventilation.

If inhalation risk exists, wear a respirator or air supplied mask complying with the

requirements of AS/NZS 1715 and AS/NZS 1716.

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Section 9. Physical and chemical properties

Appearance: Clear, Colorless, Straw

Density: 1.1 g/cm3

Solubility in water: Polymerises in presence of water.

Viscosity (dynamic):

(; Method: ;; LCT STM 740; cone & plate viscosity)

Section 10. Stability and reactivity

Stability: Stable under recommended storage conditions.

25 - 45 mPa.s

Conditions to avoid: Avoid moisture.

Protect from direct sunlight.

Heat, flames, sparks and other sources of ignition.

Incompatible materials: Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and

alcohols.

Reaction with strong oxidants.

Hazardous decomposition

products:

Thermal decomposition can lead to release of irritating gases and vapors.

carbon dioxide

Section 11. Toxicological information

Health Effects:

Ingestion: Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It

is almost impossible to swallow.

Skin: Bonds skin in seconds.

May cause skin irritation.

Cyanoacrylates have been reported to cause allergic reaction but due to rapid polymerization at

the skin surface, an allergic response is rare.

Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the

skin. Cured adhesive does not present a health hazard even if bonded to the skin.

Eyes: Irritating to eyes. Causes excessive tearing. Eyelids may bond.

Inhalation: May cause respiratory tract irritation.

Exposure to vapors above the established exposure limit results in respiratory irritation, which

may lead to difficulty in breathing and tightness in the chest.

Aggravated med.

condition:

 $Eye,\,skin,\,and\,\,respiratory\,\,disorders.$

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Bis(2-hydroxy-3-tert-	LD50	> 10,000 mg/kg	oral		rat	not specified
butyl-5-	LD50	> 10,000 mg/kg			rat	not specified
methylphenyl)methane			dermal			_
119-47-1						

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Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
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

Ecotoxicity:

Do not empty into drains \slash surface water \slash ground water., Harmful to aquatic life with long lasting effects.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity	Exposure time	Species	Method
D: (2.1 1 2 + 1.1 5	T C50	TD ''' . XX7 .	Study		0 : 1:	OEGD G 111
Bis(2-hydroxy-3-tert-butyl-5-	LC50	Toxicity > Water	Fish		Oryzias latipes	OECD Guideline
methylphenyl)methane 119-47-1		solubility				203 (Fish, Acute Toxicity Test)
	EC50	Torrigity > Water	Dombnio	48 h	Danhaia maana	OECD Guideline
Bis(2-hydroxy-3-tert-butyl-5-methylphenyl)methane	EC30	Toxicity > Water solubility	Daphnia	46 11	Daphnia magna	
119-47-1		Solubility				202 (Daphnia sp. Acute
119-47-1						Immobilisation
Di-(2 hd 2 tt ht1 5	ECEO	T:-: W-4	A1	72.1-	D	Test)
Bis(2-hydroxy-3-tert-butyl-5-	EC50	Toxicity > Water	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline
methylphenyl)methane		solubility			(reported as Selenastrum	201 (Alga, Growth
119-47-1	MOEC	T:-: W-4	A1	72.1-	capricornutum)	Inhibition Test)
Bis(2-hydroxy-3-tert-butyl-5-	NOEC	Toxicity > Water	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline
methylphenyl)methane		solubility			(reported as Selenastrum	201 (Alga, Growth
119-47-1	50.50	40.000 1		2.1	capricornutum)	Inhibition Test)
Bis(2-hydroxy-3-tert-butyl-5-	EC 50	> 10,000 mg/l	Bacteria	3 h		OECD Guideline
methylphenyl)methane						209 (Activated
119-47-1						Sludge, Respiration
						Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Bis(2-hydroxy-3-tert-butyl-5-	under test conditions no	aerobic	0 %	OECD Guideline 301 C (Ready
methylphenyl)methane	biodegradation observed			Biodegradability: Modified MITI
119-47-1	_			Test (I))

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
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)

Section 13. Disposal considerations

Waste disposal of product: Dispose of in accordance with local and national regulations.

Disposal for uncleaned package: Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

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Section 14. Transport information

Road and Rail Transport:

Dangerous Goods information: Not classified as Dangerous Goods according to the criteria of the

Australian Code for the Transport of Dangerous Goods by Road and

Rail (ADG Code).

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

UN no.: 3334

Proper shipping name: Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)

Class or division: 9
Packing group: III
Packing instructions (passenger) 964
Packing instructions (cargo) 964

Additional Information IATA: Primary packs containing less than 500ml are unregulated by this

mode of transport and may be shipped unrestricted.

Section 15. Regulatory information

SUSMP Poisons Schedule None

Section 16. Other information

Abbreviations/acronyms: ADGC - Australian Dangerous Goods Code

GHS: Globally Harmonized System CAS: Chemical Abstracts Service

OECD: Organization for Economic Cooperation and Development

LD 50: Lethal Dose 50%

LC 50: Lethal Concentration 50%

IMDG: International Maritime Dangerous Goods code

IATA-DGR: International Air Transport Association - Dangerous Goods Regulations

Reason for issue: First issue. involved chapters: 1-16

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