

LOCTITE 435

Safety Data Sheet according to GB/T 16483-2008

Page 1 of 11.

SDS No.: 204082

V001.8

Revision: 30.12.2020 printing date: 20.04.2023

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

Product name: LOCTITE 435

Trade name: 435 CLEAR RUBBER TOUGHENED CA

Intended use: Cyanoacrylate

Manufacturer/Importer/Distributor Representative Company

Henkel Adhesive Technology (Shanghai) Co., Ltd.

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Revision date: 30.12.2020

Emergency information: Emergency telephone: +86 21 2891 8311 (24h).

2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 (General rule for classification and hazard communication of chemicals):

<u>Hazard Class</u> <u>Hazard Category</u> <u>Target organ</u>

Flammable liquids Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Specific target organ toxicity - Category 3

Specific target organ toxicity - Category 3 respiratory tract irritation

single exposure

Acute hazards to the aquatic Category 3

environment

Label elements according to GB 15258-2009 (General rules for preparation of precautionary label for chemicals): Hazard pictogram:

Signal word: Warning

SDS No.: 204082 Page 2 of 11.

V001.8 LOCTITE 435

Hazard statement: H227 Combustible liquid.

H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H402 Harmful to aquatic life.

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

No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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

Response: P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

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

extinction.

Storage: P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

accordance with applicable laws and regulations, and product characteristics at time of

disposal.

SDS No.: 204082 Page 3 of 11.

LOCTITE 435 V001.8

3. Composition / information on ingredients

General description: Mixture

Declaration of the ingredients according to GB 13690-2009:

Hazard component CAS-No.	Content	GHS Classification
Ethyl 2-cyanoacrylate	90- <= 100 %	Flammable liquids 4
7085-85-0		H227
		Skin corrosion/irritation 2
		H315
		Serious eye damage/eye irritation 2A
		H319
		Specific target organ toxicity - single exposure 3
		H335
phthalic anhydride	0.1-< 1 %	Acute toxicity 4; Oral
85-44-9		H302
		Skin corrosion/irritation 2
		H315
		Serious eye damage/eye irritation 1
		H318
		Respiratory sensitizer 1
		H334
		Skin sensitizer 1
		H317
		Specific target organ toxicity - single exposure 3
		H335
Methyl acrylate	0.1-< 0.25 %	Flammable liquids 2
96-33-3	0.1- < 0.25 %	H225
90-33-3		Acute toxicity 4; Oral
		H302
		Acute toxicity 3; Inhalation
		H331
		Acute toxicity 4; Dermal
		H312
		Skin corrosion/irritation 2
		H315
		Serious eye damage/eye irritation 2A
		H319
		Skin sensitizer 1
		H317
		Specific target organ toxicity - single exposure 3 H335
		Acute hazards to the aquatic environment 2 H401
		Chronic hazards to the aquatic environment 3 H412
Hydroquinone	0.025-< 0.1 %	Acute toxicity 4; Oral
123-31-9	0.023- < 0.1 %	H302
123-31-7		Serious eye damage/eye irritation 1
		H318
		Skin sensitizer 1
		H317
		Germ cell mutagenicity 2
		H341
		Carcinogenicity 2 H351
		Acute hazards to the aquatic environment 1
		H400
		Chronic hazards to the aquatic environment 1
		H410

Only hazardous ingredients for which a classification according to GB 13690-2009 is already available are displayed in this table. For full text of the Hazard statements see section 16 "Other information".

SDS No.: 204082 Page 4 of 11.

V001.8 LOCTITE 435

Skin contact: 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.

Eye contact: 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.

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).

5. Fire fighting measures

Hazardous combustion products: Oxides of carbon, oxides of nitrogen, irritating organic vapors.

Extinguishing media: Foam, extinguishing powder, carbon dioxide.

Fine water spray

Fire-fighting method: In case of fire, keep containers cool with water spray.

Notice and measures for firing

fighting:

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

6. Accidental release measures

Emergency measures: Ensure adequate ventilation.

Do not let product enter drains.

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.

7. Handling and storage

Notice for 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

Notice for storage: Refer to Technical Data Sheet

LOCTITE 435 V001.8

8. Exposure controls / personal protection

Hazardous components	GBZ 2.1-2019	ACGIH	NIOSH	OSHA
phthalic anhydride	1 mg/m3MAC	0.005 mg/m3 TWA Inhalable fraction and vapor. 0.002 mg/m3 TWA Inhalable fraction and vapor.		none
Methyl acrylate	(SKIN) 20 mg/m3PC-TWA	2 ppm TWA		none
Hydroquinone	1 mg/m3PC-TWA 2 mg/m3PC-STEL	1 mg/m3 TWA		none

Use positive down-draft exhaust ventilation if general ventilation is insufficient to **Engineering controls:**

maintain vapor concentration below established exposure limits.

Respiratory protection: Ensure adequate ventilation.

Eye protection: Wear protective glasses.

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

Hand protection: 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.

Other protection: The selection of PPE shall at least compliant with "Law of the People's Republic of China

on Prevention and Control of Occupational Diseases" and "Code of practice for selection

of personal protective equipments" (GB/T 11651-2008).

Pictograms for recommended PPE:







9. Physical and chemical properties

Physical state: liquid Appearance: transparent Evaporation rate: Not available. irritating Odor: pH: Not applicable Melting point: Not available. Boiling point: $> 149 \, ^{\circ}\text{C} \, (> 300.2 \, ^{\circ}\text{F})$ Density: 1.1000 g/cm3 Vapor density: Not available. Vapor pressure: Not available. 80 - 93 °C (176 - 199.4 °F) Ignition temperature: Not available. Flash point: Lower explosive limit: Not available. Upper explosive limit: Not available. Solubility in water Viscosity: 100.0 - 250.0 mPa.s

Polymerises in presence of

water.

Auto-ignition temperature: Not available. Flammability: Not available. Not available. Decomposition temperature: Not available.

Octanol / water distribution

coefficient:

VOC: Bulk adhesive

Others

Assembly Industry

<= 20 g/kg, GB 33372-2020 Limit of volatile organic compounds content in adhesive

SDS No.: 204082 Page 6 of 11.

V001.8 LOCTITE 435

10. Stability and reactivity

Stability:Stable under recommended storage conditions.Conditions to avoid:Stable under normal conditions of storage and use.

Decomposition products: carbon oxides.

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

alcohols.

11. Toxicological information

General toxicological information:

No laboratory animal data available.

Inhalative toxicity:

Acute toxicity estimate (ATE): > 40 mg/l

Exposure time: 4 h Test atmosphere: Vapor. Method: Calculation method

Acute toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Ethyl 2-cyanoacrylate	LD50	> 5,000 mg/kg	oral		rat	OECD Guideline 401 (Acute
7085-85-0	LD50	> 2,000 mg/kg			rabbit	Oral Toxicity)
			dermal			OECD Guideline 402 (Acute
						Dermal Toxicity)
phthalic anhydride	LD50	1,530 mg/kg	oral		rat	not specified
85-44-9	LC50	> 2.14 mg/l	inhalation	4 h	rat	OECD Guideline 403 (Acute
	LD50	> 10,000 mg/kg	dermal		rabbit	Inhalation Toxicity)
						not specified
Methyl acrylate	LD50	768 mg/kg	oral		rat	OECD Guideline 401 (Acute
96-33-3	LC50	6.5 mg/l	inhalation	4 h	rat	Oral Toxicity)
	LD50	1,250 mg/kg	dermal		rabbit	equivalent or similar to OECD
						Guideline 403 (Acute
						Inhalation Toxicity)
						Draize Test
Hydroquinone	LD50	367 mg/kg	oral		rat	OECD Guideline 401 (Acute
123-31-9	LD50	> 2,000 mg/kg			rabbit	Oral Toxicity)
			dermal			OECD Guideline 402 (Acute
						Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Ethyl 2-cyanoacrylate	slightly irritating	24 h	rabbit	OECD Guideline 404 (Acute
7085-85-0				Dermal Irritation / Corrosion)
Methyl acrylate	irritating	4 h	rabbit	OECD Guideline 404 (Acute
96-33-3				Dermal Irritation / Corrosion)
Hydroquinone	not irritating	24 h	rabbit	Weight of evidence
123-31-9	-			_

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	irritating	72 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
phthalic anhydride 85-44-9	highly irritating		rabbit	not specified

Page 7 of 11. SDS No.: 204082 LOCTITE 435

V001.8

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Ethyl 2-cyanoacrylate 7085-85-0	not sensitising		guinea pig	not specified
phthalic anhydride 85-44-9	sensitising	in vivo	guinea pig	not specified
phthalic anhydride 85-44-9	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	Mouse local lymphnode assay (LLNA)
Methyl acrylate 96-33-3	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Hydroquinone 123-31-9	sensitising	Guinea pig maximisat ion test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
Hydroquinone 123-31-9	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

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 negative negative	bacterial reverse mutation assay (e.g Ames test) mammalian cell gene mutation assay in vitro mammalian chromosome aberration test	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
phthalic anhydride 85-44-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified
Methyl acrylate 96-33-3	negative	inhalation: vapour		mouse	not specified
Hydroquinone 123-31-9	negative negative positive	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without with and without with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Hydroquinone 123-31-9	positive negative positive	intraperitoneal oral: gavage intraperitoneal		mouse rat mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test) equivalent or similar to OECD Guideline 483 (Mammalian Spermatogonial Chromosome Aberration Test)

Page 8 of 11. SDS No.: 204082 **LOCTITE 435**

V001.8

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Methyl acrylate 96-33-3	NOAEL=23 ppm	inhalation	13 weeks6 hrs/day, 5 days/wk	rat	BASF Test
Methyl acrylate 96-33-3	LOAEL=20 mg/kg	oral: drinking water	13 wcontinuous	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Methyl acrylate 96-33-3	NOAEL=5 mg/kg	oral: drinking water	13 wcontinuous	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Hydroquinone 123-31-9	NOAEL=50 mg/kg	oral: gavage	13 w5 d/w	rat	not specified
Hydroquinone 123-31-9	NOAEL=73.9 mg/kg	dermal	13 w6 h/d, 5 d/w	rat	equivalent or similar to OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

12. Ecological information

General ecological information:

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

SDS No.: 204082 V001.8 LOCTITE 435

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
phthalic anhydride 85-44-9	LC50	313 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
phthalic anhydride 85-44-9	NOEC	10 mg/l	Fish	60 d	no data	OECD Guideline 210 (fish early lite
phthalic anhydride 85-44-9	EC50	> 640 mg/l	Daphnia	48 h	Daphnia magna	stage toxicity test) other guideline:
phthalic anhydride 85-44-9	EC50	> 100 mg/l	Algae	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
phthalic anhydride 85-44-9	NOEC	100 mg/l	Algae	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
phthalic anhydride 85-44-9	EC50	> 1,000 mg/l	Bacteria	3 h	not specified	ISO 8192 (Test for Inhibition of Oxygen Consumption by
Methyl acrylate 96-33-3	LC50	3.4 mg/l	Fish	96 h	Oncorhynchus mykiss	Activated Sludge) OECD Guideline 203 (Fish, Acute Toxicity Test)
Methyl acrylate 96-33-3	EC50	2.6 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation
Methyl acrylate 96-33-3	EC50	3.55 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella	
Methyl acrylate 96-33-3	EC10	> 100 mg/l	Bacteria	72 h	subcapitata)	Inhibition Test) not specified
Hydroquinone 123-31-9	LC50	0.638 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydroquinone 123-31-9	EC50	0.134 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute
Hydroquinone	EC50	0.335 mg/l	Algae	72 h	Selenastrum capricornutum	Immobilisation Test) OECD Guideline
123-31-9	ECJU	0.555 High	Algae	/ 2 11	(new name: Pseudokirchneriella subcapitata)	
Hydroquinone 123-31-9	EC 50	0.038 mg/l	Bacteria	30 min	Subcapitata)	not specified

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)
phthalic anhydride 85-44-9	readily biodegradable	aerobic	74 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Methyl acrylate 96-33-3	readily biodegradable	aerobic	90 - 100 %	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)
Hydroquinone 123-31-9	readily biodegradable	aerobic	75 - 81 %	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)

Bioaccumulative potential / Mobility in soil:

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

SDS No.: 204082 Page 10 of 11.

V001.8 LOCTITE 435

Ethyl 2-cyanoacrylate 7085-85-0	0.776			22 °C	EU Method A.8 (Partition Coefficient)
phthalic anhydride 85-44-9	1.6				EU Method A.8 (Partition Coefficient)
Methyl acrylate 96-33-3		3.16			not specified
Methyl acrylate 96-33-3	0.739			25 °C	OECD Guideline 107 (Partition Coefficient (noctanol / water), Shake Flask Method)
Hydroquinone 123-31-9	0.59				EU Method A.8 (Partition Coefficient)

13. Disposal considerations

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

Disposal of uncleaned packages: After use, tubes, cartons and bottles containing residual product should be disposed of as

chemically contaminated waste in an authorised legal land fill site or incinerated.

14. Transport information

Road transport CN_DG:

Not dangerous goods

Marine transport IMDG:

Not dangerous goods

Air transport IATA:

Class: 9
Packing group: III
Packaging instructions (passenger): 964
Packaging instructions (cargo): 964
UN no.: 3334
Label: 9

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

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

mode of transport and may be shipped unrestricted.

Notice For Transportation: Transport according to local and national regulations. Ensure

containers will not leak, collapse, or being damaged when transported. DO NOT transport with incompatible materials. Transportation vehicle should be equipped with right fire-fighting equipment in case of emergency. Avoid solarization, drenched and high temperature when

transported.

15. Regulatory information

The following laws and regulations lay down provisions in terms of chemicals safety use, storage, transportation, loading/unloading, classification as well as symbol.

"Law of the People's Republic of China on Work Safety" (Adopted by the 28th meeting of 9th NPC standing committee on 29th June 2002, revised by 10th meeting of 12nd NPC standing committee on 31st Aug 2014).

Law of the People's Republic of China on the Prevention and Treatment of Occupational Diseases" (Adopted by the 24th meeting of 9th NPC standing committee on 27th October 2001, revised by 7th meeting of 13rd NPC standing committee on 29th Dec 2018).

"Law of the People's Republic of China on environmental protection" (Adopted by 11st meeting of 7th NPC standing committee on 26th December 1989, revised by 8th meeting of 12nd NPC standing committee on 24th Apr 2014).

"Regulation on the Safety Management of Hazardous Chemicals" (Adopted by 32nd State Council executive meeting on 4th December 2013).

"Regulations on License to Work Safety" (Adopted by 54th State Council executive meeting on 29th July 2014).

SDS No.: 204082 Page 11 of 11.

V001.8 LOCTITE 435

China Inventory of Existing Chemicals:

All components are listed or are exempt from Inventory of Existing Chemical Substances in China

16. Other information

Issue date:

20.04.2023

Issue department:

Product Safety & Regulatory Affairs for China

Disclaimer:

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Others:

The full text of all abbreviations indicated by codes in this safety data sheet section 3 are as follows:

H225 Highly flammable liquid and vapor.

H227 Combustible liquid.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

H401 Toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.