Safety Data Sheet



Revision Number: 006.0 Issue date: 05/12/2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE CAT 59 CLR known as

CATALYST 59 CLR (10g)

Product type/use: Epoxy Hardener Restriction of Use: None identified

Company address:
Henkel Corporation

One Henkel Way Rocky Hill, Connecticut 06067 **IDH number:** 1188230

Region: United States

Contact information: Telephone: +1 (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: FLAMMABLE LIQUID AND VAPOR.

HARMFUL IF SWALLOWED.

CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

MAY CAUSE AN ALLERGIC SKIN REACTION.

SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	3
ACUTE TOXICITY ORAL	4
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
REPRODUCTIVE TOXICITY	2





Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Keep aw ay from heat, sparks, open flames, hot surfaces - no smoking. Keep container tightly closed. No release into w ater. Use explosion-proof equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Do not eat, drink or smoke w hen using this product. Contaminated w ork clothing should not be allow ed out of the w orkplace. Wear

protective gloves, clothing, eye and face protection.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF SWALLOWED: Rinse mouth. Do

NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. In case of fire: Use foam, dry chemical or

carbon dioxide to extinguish.

Storage: Store in a well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*	
3-aminopropyltriethoxysilane	919-30-2	60 - 90	
Bis(triethoxysilylpropyl)amine	13497-18-2	10 - 30	
Ethanol	64-17-5	1 - 5	
Toluene	108-88-3	0.1 - 1	
tetraethyl silicate	78-10-4	0.1 - 1	

^{*} Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. Get immediate medical attention.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. Get medical attention. Wash clothing

before reuse.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Seek medical attention immediately.

Ingestion: If conscious, drink plenty of water. Do not induce vomiting. Get immediate

medical attention. Never give anything by mouth to an unconscious person.

Symptoms: See Section 11.

5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

Unusual fire or explosion hazards: Closed containers may rupture (due to build up of pressure) when exposed to

extreme heat. Vapors are heavier than air and may travel along the ground or be moved by ventilation and subsequently ignited by heat, pilot lights or other

ignition sources at locations distant from the material handling point.

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

silicon.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, is olate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow product to enter sew er or waterways.

Clean-up methods: Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to

prevent entry into w ater system; w earfull protective equipment during cleanup. Soak up w ith inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, saw dust). Scrape up as much material as possible. Store in a

closed container until ready for disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

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7. HANDLING AND STORAGE

Handling: During use and until all vapors are gone: Keep area ventilated - do not

smoke; extinguish all flames, pilot lights, and heaters; turn off stoves, electrical tools and appliances, and any other sources of ignition. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly

after handling. Do not taste or sw allow. Refer to Section 8.

Storage: Keep in a cool, well ventilated area away fromheat, sparks and open flame.

Keep container tightly closed until ready for use. Keep container dry.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
3-aminopropyltriethoxysilane	None	None	None	None
Bis(triethoxysilylpropyl)amine	None	None	None	None
Ethanol	1,000 ppm STEL	1,000 ppm (1,900 mg/m3) PEL	None	None
Toluene	20 ppm TWA	200 ppm TWA 300 ppm Ceiling 500 ppm MAX. CONC 10 minutes	None	None
tetraethyl silicate	10 ppm TWA	100 ppm (850 mg/m3) PEL	None	None

Engineering controls: Use explosion-proof mechanical ventilation and local exhaust to control

contaminants to within their occupational exposure limits during the use of this

product.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should

be used if the potential for splashing or spraying of product exists. Safety

show ers and eye wash stations should be available.

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:ClearOdor:AmineOdor threshold:Not available.pH:Not available.

Vapor pressure:< 1 mbar (20 °C (68°F))</th>Boiling point/range:> 410 °F (> 210°C)no method

Melting point/ range: $< 32 \, ^{\circ}\text{F} \, (< 0 \, ^{\circ}\text{C})$ Specific gravity: 0.95

Vapor density: Not available.

Flash point: 48.9 °C (120.02 °F) Tagliabue closed cup

Flam mable/Explosive limits - lower:
Flam mable/Explosive limits - upper:
Autoignition temperature:
Flam mability:
Flam mability:
Evaporation rate:
Solubility in water:
Partition coefficient (n-octanol/water):
Not available.
Not available.
Reacts with water.
Not available.

Partition coefficient (n-octanol/water):

VOC content:

Viscosity:

Decomposition temperature:

Not available.

Not available.

Not available.

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10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Will not occur.

Hazardous decomposition

products:

Oxides of carbon. Oxides of nitrogen.

Incompatible materials: Reacts with water: generation of heat.

Reactivity: Not available.

Conditions to avoid: Heat, flames, sparks and other sources of ignition. Avoid static discharge. Avoid contact with

w ater. Avoid moisture. Store aw ay from incompatible materials.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation: Inhalation of vapors or mists of the product may be irritating to the respiratory system. May

cause dizziness, incoordination, headache, nausea, and vomiting.

Skin contact: Corrosive to skin. Causes skin burns. May cause allergic skin reaction.

Eye contact: Causes serious eye damage. Direct contact with liquid may cause corneal damage and visual

impairment.

Ingestion: Harmful if sw allowed. Irritation and corrosive action can occur in the mouth, stomach tissue and

digestive tract if sw allowed. May cause an aspiration hazard if sw allowed. Ingestion of this product may result in central nervous system effects including headache, sleepiness, dizziness,

slurred speech and blurred vision.

azardous Component(s) LD50s and LC50s		Immediate and Delayed Health Effects	
3-aminopropyltriethoxysilane	Inhalation LC50 (Rat, 4 h) = > 7.35 mg/l	Irritant, Allergen	
Bis(triethoxysilylpropyl)amine	None	No Records	
Ethanol	Oral LD50 (Rat) = 9.9 g/kg Oral LD50 (Rat) = 6.2 g/kg Oral LD50 (Rat) = 17.8 g/kg Oral LD50 (Rat) = 11.5 g/kg Oral LD50 (Rat) = 11.5 g/kg Oral LD50 (Mouse) = 3,450 mg/kg Oral LD50 (Rat) = 10.6 g/kg Oral LD50 (Rat) = 7,060 mg/kg Inhalation LC50 (Rat, 4 h) = 133.8 mg/l Inhalation LC50 (Rat, 4 h) = 124.7 mg/l Inhalation LC50 (Rat, 4 h) = > 115.9 mg/l Inhalation LC50 (Rat, 4 h) = 130.7 mg/l Inhalation LC50 (Rat, 4 h) = 128.2 mg/l Inhalation LC50 (Rat, 4 h) = 116.9 mg/l Inhalation LC50 (Mouse, 4 h) = 39 mg/l	Central nervous system, Irritant	
Toluene	Oral LD50 (Rat) = 2.6 g/kg Dermal LD50 (Rabbit) = 12,124 mg/kg Inhalation LC50 (Rat, 4 h) = 12.5 - 28.8 mg/l Inhalation LC50 (Rat, 4 h) = 25.7 mg/l Inhalation LC50 (Rat, 4 h) = 28.1 mg/l Inhalation LC50 (Rat, 4 h) = 30 mg/l	Behavioral, Cardiac, Central nervous system, Developmental, Ear, Irritant	
tetraethylsilicate	Inhalation LC50 (Rat, 4 h) = > 5.03 mg/l Inhalation LC50 (Rat, 4 h) = > 16.8 mg/l Inhalation LC50 (Rat, 4 h) = 10 mg/l Inhalation LC50 (Mouse, 4 h) = > 1000 ppm	Central nervous system, Irritant, Kidney, Liver, Lung	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
3-aminopropyltriethoxysilane	No	No	No
Bis(triethoxysilylpropyl)amine	No	No	No
Ethanol	No	No	No
Toluene	No	No	No
tetraethyl silicate	No	No	No

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12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Propershipping name: Flammable liquids, corrosive, n.o.s. (Ethanol, Aminopropyltriethoxysilane)

Hazard class or division: 3 (8)
Identification number: UN 2924
Packing group:

International Air Transportation (ICAO/IATA)

Proper shipping name: Flammable liquid, corrosive, n.o.s. (Ethanol, Aminopropyltriethoxysilane)

Hazard class or division: 3 (8)
Identification number: UN 2924
Packing group:

Water Transportation (IMO/IMDG)

Propershipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Ethanol, Aminopropyltriethoxysilane)

Hazard class or division: 3 (8)
Identification number: UN 2924
Packing group:

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances

Control Act (TSCA) inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis.

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire, Reactive

CERCLA/SARA Section 313: None above reporting de minimis.

CERCLA Reportable quantity: Ethanol (CAS# 64-17-5) 100 lbs. (45.4 kg)

California Proposition 65: This product contains a chemical known to the State of California to cause birth defects or

other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2,3,8,11,13,15,16

Prepared by: Product Safety and Regulatory Affairs

Issue date: 05/12/2021

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