



Safety Data Sheet

LOCTITE SI 596 RTV SILICONE VERMELHO

Page 1 of 8

SDS No. : 191177

V001.5

Date of issue: 21.03.2024

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

Product name: LOCTITE SI 596 RTV SILICONE VERMELHO

Intended use: Adhesive

Supplier:

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

Phone: +61 (3) 9724 6444

Emergency Telephone for Chemical Accidents: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture

Not hazardous according to the criteria of Safe Work Australia.

No classification required.

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).

Section 3. Composition / information on ingredients

General chemical description: Mixture
Type of preparation: Acetoxycuring silicone

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Silicon dioxide	7631-86-9	< 10 %
Diiron trioxide	1309-37-1	< 10 %
Cyclosiloxanes, di-Me	69430-24-6	< 3 %
non hazardous ingredients~		60- <= 100 %

Section 4. First aid measures

Ingestion:	Do not induce vomiting. Seek medical advice.
Skin:	Rinse with running water and soap. Obtain medical attention if irritation persists.
Eyes:	Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.
Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.
First Aid facilities:	Eye wash

Section 5. Fire fighting measures

Suitable extinguishing media:	Carbon dioxide, foam, powder Fine water spray
Decomposition products in case of fire:	carbon oxides. Silica fume
Special protective equipment for fire-fighters:	Wear self-contained breathing apparatus.
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. Ensure adequate ventilation.
Environmental precautions:	Do not let product enter drains.
Clean-up methods:	Scrape up as much material as possible. Ensure adequate ventilation. Store in a partly filled, closed container until disposal.

Section 7. Handling and storage

Precautions for safe handling:	Use only in well-ventilated areas. Vapours should be extracted to avoid inhalation.
Conditions for safe storage:	Store at room temperature.

Section 8. Exposure controls / personal protection**National exposure standards:**

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Peak Limit. (ppm)	Peak Limit. (mg/m3)	STEL (ppm)	STEL (mg/m3)
SILICA, AMORPHOUS: FUMED SILICA (RESPIRABLE DUST) 7631-86-9	Respirable dust.		2				

IRON OXIDE FUME (FE ₂ O ₃) (AS FE) 1309-37-1	Fume.		5				
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Engineering controls: Use only with adequate ventilation.

Eye protection: Wear protective glasses.

Skin protection: The use of chemical resistant gloves such as Nitrile is recommended.
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: Use only in well-ventilated areas.
If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

Section 9. Physical and chemical properties

Appearance: Red
Liquid, Paste
Odor: Acetic acid
pH: Not applicable
Specific gravity: 1.01
Flash point: > 93 °C (> 199.4 °F)
Vapor pressure: 13 hPa
(; 21 °C (69.8 °F))
Vapor density: Heavier than air.
Density: 1.01 g/cm³
Solubility in water: Not soluble. Polymerizes in presence of water.

Section 10. Stability and reactivity

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

Incompatible materials: Acids.
Bases.
Oxidizing agents.
Polymerises in presence of water.

Hazardous decomposition products: Acetic acid is liberated slowly upon contact with moisture.

Section 11. Toxicological information

Health Effects:**Ingestion:** Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.**Skin:** May cause skin irritation.**Eyes:** May cause mild irritation**Inhalation:** Acetic acid produced during cure may irritate eyes, nose and throat.

May irritate the nose and respiratory system.

Chronic effects: No chronic health effects are expected from the intended use of these products or from foreseeable handling of them in the workplace.**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Silicon dioxide 7631-86-9	LD50 LC50 LD50	> 5,000 mg/kg > 5.01 mg/l > 5,000 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class (ATC) Method) not specified
Diiron trioxide 1309-37-1	LD50 LC50	> 5,000 mg/kg > 5 mg/l	oral inhalation	4 h	rat rat	EU Method B.1 bis (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity)
Cyclosiloxanes, di-Me 69430-24-6	LD50 LC50 LD50	> 5,000 mg/kg 8.67 mg/l > 2,000 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 403 (Acute Inhalation Toxicity) equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Silicon dioxide 7631-86-9	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Diiron trioxide 1309-37-1	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
Silicon dioxide 7631-86-9	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Diiron trioxide 1309-37-1	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
Diiron trioxide 1309-37-1	not sensitising	Maurer optimisation test	guinea pig	Maurer Optimisation Test

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Silicon dioxide 7631-86-9	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 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)
Silicon dioxide 7631-86-9	negative	inhalation		rat	not specified
Diiron trioxide 1309-37-1	negative negative negative	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		not specified OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Diiron trioxide 1309-37-1	negative	oral: gavage		rat	other guideline:

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Silicon dioxide 7631-86-9	NOAEL=> 4,000 - 4,500 mg/kg	oral: feed	13 weeksdaily	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Silicon dioxide 7631-86-9	NOAEL=1.3 mg/m3	inhalation	13 w6 h/d, 5 d/w	rat	equivalent or similar to OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Diiron trioxide 1309-37-1	NOAEL=0.0047 mg/l	inhalation: dust	13 w6h/d, 5d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
Diiron trioxide 1309-37-1	NOAEL=> 1,000 mg/kg	oral: gavage	13 wdaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

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
Silicon dioxide 7631-86-9	LC50	> 10,000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Silicon dioxide 7631-86-9	EL50	> 1,000 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Silicon dioxide 7631-86-9	NOELR	10,000 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Silicon dioxide 7631-86-9	EL50	> 10,000 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Silicon dioxide 7631-86-9	EC0	10,000 mg/l	Bacteria	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test) other guideline:
Diiron trioxide 1309-37-1	LC50	Toxicity > Water solubility	Fish	96 h	Danio rerio	
Diiron trioxide 1309-37-1	EC50	Toxicity > Water solubility	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Diiron trioxide 1309-37-1	EC50	Toxicity > Water solubility	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Diiron trioxide 1309-37-1	NOEC	Toxicity > Water solubility	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Diiron trioxide 1309-37-1	EC50	Toxicity > Water solubility	Bacteria	3 h	activated sludge of a predominantly domestic sewage	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)
Cyclosiloxanes, di-Me 69430-24-6	LC50	Toxicity > Water solubility	Fish	96 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cyclosiloxanes, di-Me 69430-24-6	EC50	Toxicity > Water solubility	Bacteria	3 h	not specified	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Silicon dioxide 7631-86-9	0.53					QSAR (Quantitative Structure Activity Relationship)
Cyclosiloxanes, di-Me 69430-24-6	5.64					QSAR (Quantitative Structure Activity Relationship)

Section 13. Disposal considerations

- Waste disposal of product:** Collection and delivery to recycling enterprise or other registered elimination institution. Cured rubber can be incinerated or landfilled following EPA and local regulations.
- Disposal for uncleaned package:** 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. Disposal must be made according to official regulations.

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:**
Not dangerous goods

Section 15. Regulatory information

- SUSMP Poisons Schedule** None
- AIC:** All components are listed or are exempt from listing on the Australian Inventory of Industrial Chemicals or Introduced under AICIS.

Section 16. Other information

- Abbreviations/acronyms:**
- ADGC - Australian Dangerous Goods Code
 - IMDG: International Maritime Dangerous Goods code
 - IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
 - 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%
 - AIC - Australian Inventory of Industrial Chemicals (AIC)
 - AICIS - Australian Industrial Chemicals Introduction Scheme
- Reason for issue:** Reviewed MSDS. Reissued with new date. involved chapters: 1-16

Date of previous issue: 03.09.2020

Disclaimer:

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