

### **Safety Data Sheet**

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SDS No.: 168444

V001.6

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# LOCTITE SI 596 HIGH TEMP SIL SEALANT RED known as HIGH TEMP SIL SEALANT RED 85 G

### SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

LOCTITE SI 596 HIGH TEMP SIL SEALANT RED known as HIGH TEMP SIL **Product name:** 

SEALANT RED 85 G

Intended use: Sealant

Supplier:

Henkel New Zealand Ltd

2 Allens Rd East Tamaki Auckland, 2013 New Zealand

Phone: +64 (9) 272-6710

E-mail address of person responsible for Safety Data

Sheet:

SDSinfo.Adhesive@henkel.com

**Emergency Telephone for** 

**Chemical Accidents:** 

24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

### **SECTION 2 HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

Not classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO). Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

### **GHS Classification:**

# SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

General chemical description: Mixture

Acetoxy curing silicone Type of preparation:

**Identity of ingredients:** 

Chemical ingredients	CAS-No.	Proportion
Silica, amorphous, fumed, crystal-free	112945-52-5	10- < 20 %
Hydrocarbon C11-25 dearomatized	64742-46-7	1- < 10 %
Diiron trioxide	1309-37-1	1- < 10 %
Non-hazardous ingredients~		remainder up to 100%

#### SECTION 4 FIRST AID MEASURES

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**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

Normal washroom facilities

Medical attention and special

treatment:

Treat symptomatically and supportively.

### **SECTION 5. FIRE FIGHTING MEASURES**

Suitable extinguishing media: Carbon dioxide, foam, powder

Fine water spray

**Decomposition products in case of** carbon oxides.

fire:

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 in a cool, well-ventilated place.

Never allow product to get in contact with water during storage

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### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Workplace exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Ceiling	STEL (ppm)	STEL (mg/m3)
Respirable dust (not otherwise classified) 112945-52-5	Respirable dust.		3	-	-	-
Inhalable dust (not otherwise classified)	Inhalable dust.		10	-	-	-
Oil mist, mineral 64742-46-7	Mist.	-	-	-		10
Oil mist, mineral	Mist.		5		-	-
Iron oxide dust and fume (Fe2O3), as Fe 1309-37-1	Dust and fume.		5	-	-	-

**Biological Exposure Indices:** 

None

**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 solid

Odor: Acetic acid medium pH: Not applicable

Specific gravity:

Flash point:  $> 93 \, ^{\circ}\text{C} \, (> 199.4 \, ^{\circ}\text{F})$ 

(Tagliabue closed cup)

Lower explosive limit: 4%(V)

(acetic acid) 19.9 %(V) (acetic acid)

Vapor pressure: (acetic acid)
(acetic acid)
(acetic acid)

(; 20 °C (68 °F))

**Upper explosive limit:** 

Solubility in water: Insoluble VOC content: 4.8 % 50.4 g/l

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# **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.

**Hazardous polymerization:** Will not occur.

# **SECTION 11 TOXICOLOGICAL INFORMATION**

**Health Effects:** 

Ingestion: Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea,

and diarrhea.

Skin: May cause irritation.

Eyes: May cause mild irritation

**Inhalation:** Acetic acid produced during cure may irritate eyes, nose and throat.

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	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Silica, amorphous, fumed,	LD50	> 5,000 mg/kg	oral		rat	OECD Guideline 401 (Acute
crystal-free	LC50	> 58.8 mg/l	inhalation	4 h	rat	Oral Toxicity)
112945-52-5	LD50	> 2,000 mg/kg	dermal		rabbit	OECD Guideline 403 (Acute
						Inhalation Toxicity)
						OECD Guideline 402 (Acute
						Dermal Toxicity)
Hydrocarbon C11-25	LD50	> 5,000 mg/kg	oral		rat	OECD Guideline 401 (Acute
dearomatized	LC50	> 5.266 mg/l	inhalation	4 h	rat	Oral Toxicity)
64742-46-7	LD50	> 2,000 mg/kg	dermal		rabbit	not specified
						OECD Guideline 402 (Acute
						Dermal Toxicity)
Diiron trioxide	LD50	> 5,000 mg/kg	oral		rat	EU Method B.1 bis (Acute
1309-37-1	LC50	> 5 mg/l	inhalation	4 h	rat	Oral Toxicity)
						OECD Guideline 403 (Acute
						Inhalation Toxicity)

#### Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Silica, amorphous, fumed, crystal-free 112945-52-5	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Hydrocarbon C11-25 dearomatized 64742-46-7	not irritating		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)

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# Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Silica, amorphous, fumed, crystal-free 112945-52-5	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Hydrocarbon C11-25 dearomatized 64742-46-7	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
Hydrocarbon C11-25 dearomatized 64742-46-7	not sensitising	in vivo	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Diiron trioxide 1309-37-1	not sensitising	Maurer optimisati on test	guinea pig	Maurer Optimisation Test

### Germ cell mutagenicity:

Hazardous components	Result	Type of study /	Metabolic	Species	Method
CAS-No.		Route of	activation /		
		administration	Exposure time		
Silica, amorphous, fumed, crystal-free 112945-52-5	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)
Hydrocarbon C11-25 dearomatized 64742-46-7	negative negative negative	mammalian cell gene mutation assay in vitro mammalian chromosome aberration test bacterial reverse mutation assay (e.g Ames test)	with and without with and without with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Hydrocarbon C11-25 dearomatized 64742-46-7	negative negative negative	oral: unspecified intraperitoneal inhalation		mouse mouse mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test) OECD Guideline 483 (Mammalian Spermatogonial Chromosome Aberration Test)
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:

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# Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Silica, amorphous, fumed, crystal-free 112945-52-5	NOAEL=< 0.046 mg/l	inhalation	14 days6 hours/day, 5 days/week	rat	not specified
Silica, amorphous, fumed, crystal-free 112945-52-5	NOAEL=> 4,500 mg/kg	oral: feed	13 weeksdaily, continous	rat	
Hydrocarbon C11-25 dearomatized 64742-46-7	NOAEL=5,000 mg/kg	oral: gavage		rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Hydrocarbon C11-25 dearomatized 64742-46-7	NOAEL=10.4 mg/l	inhalation		rat	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.

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**Ecotoxicity:** 

H412 Harmful to aquatic life with long lasting effects.

# Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity	Exposure time	Species	Method
CAS-110.	type		Study	line		
Silica, amorphous, fumed, crystal-free 112945-52-5	LC50	> 10,000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Silica, amorphous, fumed, crystal-free 112945-52-5	EL50	> 1,000 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Silica, amorphous, fumed, crystal-free 112945-52-5	NOELR	10,000 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Silica, amorphous, fumed, crystal-free 112945-52-5	EL50	> 10,000 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Silica, amorphous, fumed, crystal-free 112945-52-5	EC0	10,000 mg/l	Bacteria	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
Hydrocarbon C11-25 dearomatized 64742-46-7	LC50	> 10,000 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Hydrocarbon C11-25 dearomatized 64742-46-7	EL50	> 3,000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Diiron trioxide 1309-37-1	LC50	Toxicity > Water solubility	Fish	96 h	Danio rerio	other guideline:
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)

# Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Hydrocarbon C11-25 dearomatized 64742-46-7	readily biodegradable	aerobic	74 %	OECD Guideline 306 (Biodegradability in Seawater)

### Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Silica, amorphous, fumed,	0.53					QSAR (Quantitative
crystal-free						Structure Activity
112945-52-5						Relationship)

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### **SECTION 13.**

### **DISPOSAL CONSIDERATIONS**

Waste disposal of product: Follow all local, state, federal and provincial regulations for disposal.

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

### **Dangerous Goods information:**

#### **Land Transport:**

Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

#### Marine transport IMDG:

Not dangerous goods

### Air transport IATA:

Not dangerous goods

### **SECTION 15.**

# **REGULATORY INFORMATION**

#### New Zealand regulatory information:

Not classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

HSNO Approval Number: NOT APPLICABLE

NZIoC: Compliant for NZIoC

### **SECTION 16.**

### OTHER INFORMATION

**Abbreviations/acronyms:** CAS: Chemical Abstracts Service

GHS: Globally Harmonized System

HSNO: Hazardous Substances and New Organisms

IATA: International Air Transport Association – Dangerous Goods Regulations

IMDG: International Maritime Dangerous Goods code

LC 50: Lethal Concentration 50%

LD 50: Lethal Dose 50%

STEL - Short term exposure limit TWA - Time weighted average

**Reason for issue:** Reviewed SDS. Reissued with new date. involved chapters: 1-16

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**Date of previous issue:** 10.02.2025

Disclaimer:

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