Safety Data Sheet

LOCTITE SI 596 RD FLANGE SEALANT known as 596 S.F RED HIGH TEMP RTV 85 G

SDS No. : 168444
V001.4
Date of issue: 21.08.2020

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

Product name: LOCTITE SI 596 RD FLANGE SEALANT known as 596 S.F RED HIGH TEMP RTV 85 G

Intended use: Sealant

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 Class	Hazard Category
Skin corrosion	Category 1B
Serious eye damage/eye irritation	Category 1

Hazard pictogram:

Signal word: Danger

Hazard statement(s): H314 Causes severe skin burns and eye damage.

Precautionary Statement(s):

Prevention:
P260 Do not breathe dusts or mists.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
P363 Wash contaminated clothing before reuse.

Storage: P405 Store locked up.

Disposal: P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

Dangerous Goods information:
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: Acetoxy curing silicone

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Hydrocarbon C11-25 dearomatized	64742-46-7	10- < 30 %
Methylsilanetriyl triacetate	4253-34-3	10- < 30 %
Triacetoxyethylsilane	17689-77-9	10- < 30 %
non hazardous ingredients~		10- < 70 %

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
Normal washroom facilities

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.

Hazchem code: 2X

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

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)
OIL MIST, REFINED MINERAL 64742-46-7			5				

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 paste
Odor:	Acetic acid
Specific gravity:	1.05
Flash point: (Tagliabue closed cup)	> 93 °C (> 199.4 °F)
Vapor pressure: (; 20 °C (68 °F))	< 10 mm hg
Solubility in water:	Insoluble

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: Causes skin burns.

Eyes: Contact with this product may cause severe eye damage.

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 CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Hydrocarbon C11-25 dearomatized 64742-46-7	LD50 LC50 LD50	> 5,000 mg/kg > 5.266 mg/l > 2,000 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) not specified OECD Guideline 402 (Acute Dermal Toxicity)
Methylsilanetriyl triacetate 4253-34-3	LD50	1,600 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
Triacetoxyethylsilane 17689-77-9	LD50	1,460 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Methylsilanetriyl triacetate 4253-34-3	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Triacetoxyethylsilane 17689-77-9	Category 1B (corrosive)	3 min	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Methylsilanetriyl triacetate 4253-34-3	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Methylsilanetriyl triacetate 4253-34-3	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Triacetoxyethylsilane 17689-77-9	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Methylsilanetriyl triacetate 4253-34-3	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		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)
Triacetoxyethylsilane 17689-77-9	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		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)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Methylsilanetriyl triacetate 4253-34-3	NOAEL=50 mg/kg	oral: gavage	28-51 ddaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Section 12. Ecological information

General ecological information: Cured Loctite products are typical polymers and do not pose any immediate environmental hazards., In the cured state contribution of this product to Environmental Hazards is insignificant in comparison to articles in which it is used., Precautions required with respect to Environmental Hazards of articles in which this product is used should be considered.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Hydrocarbon C11-25 dearomatized 64742-46-7	LC50	> 10,000 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Methylsilanetriyl triacetate 4253-34-3	LC50	> 110 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Triacetoxyethylsilane 17689-77-9	LC50	251 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Triacetoxyethylsilane 17689-77-9	EC50	168.7 mg/l	Daphnia	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
Triacetoxyethylsilane 17689-77-9	EC50	> 1,562.5 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Triacetoxyethylsilane 17689-77-9	NOEC	40 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Hydrocarbon C11-25 dearomatized 64742-46-7	not readily biodegradable.	aerobic	30 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Triacetoxyethylsilane 17689-77-9	readily biodegradable	aerobic	74 %	EU Method C.4-A (Determination of the "Ready" Biodegradability Dissolved Organic Carbon (DOC) Die-Away Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Triacetoxyethylsilane 17689-77-9	0.74					not specified

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

Road and Rail Transport:

Dangerous Goods information:	Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).
UN no.:	1760
Proper shipping name:	CORROSIVE LIQUID, N.O.S. (Ethyltriacetoxysilane,Methyltriacetoxysilane)
Class or division:	8
Packing group:	III
Hazchem code:	2X

Marine transport IMDG:

UN no.:	1760
Proper shipping name:	CORROSIVE LIQUID, N.O.S. (Ethyltriacetoxysilane,Methyltriacetoxysilane)
Class or division:	8
Packing group:	III
EmS:	F-A ,S-B
Seawater pollutant:	-

Air transport IATA:

UN no.:	1760
Proper shipping name:	Corrosive liquid, n.o.s. (Ethyltriacetoxysilane,Methyltriacetoxysilane)
Class or division:	8
Packing group:	III
Packing instructions (passenger)	852
Packing instructions (cargo)	856

`Section 15. Regulatory information

SUSMP Poisons Schedule None

AICS: All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICS).

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

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Disclaimer:

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