Safety Data Sheet

LOCTITE SI 596 300ML EN/MY/TH

SDS No. : 168444
V001.2
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SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: LOCTITE SI 596 300ML EN/MY/TH

Intended use: Sealant

Supplier:
Henkel New Zealand Ltd
2 Allens Rd
Auckland, 2013
New Zealand

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Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HSNO Classification:

8.2B Class 8 - Corrosiveness, Subclass 8.2 - Skin corrosive, Hazard Classification B
Class 8 - Corrosiveness, Subclass 8.3 - Eye corrosive, Hazard Classification A

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.

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 %

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

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 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

Workplace exposure standards:

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Ceiling	STEL (ppm)	STEL (mg/m3)
OIL MIST, MINERAL 64742-46-7	Mist.		5	-	-	-
OIL MIST, MINERAL	Mist.	-	-	-		10

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)
Lower explosive limit:	4 %(V) (acetic acid)
Upper explosive limit:	19.9 %(V) (acetic acid)
Vapor pressure: (; 20 °C (68 °F))	< 10 mm hg
Solubility in water:	Insoluble
VOC content:	4.8 % 50.4 g/l

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:	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	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)
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	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	62 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Triacetoxyethylsilane 17689-77-9	IC50	73 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	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		aerobic	30 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Triacetoxyethylsilane 17689-77-9			74 %	OECD Guideline 301 A (old version) (Ready Biodegradabiltiy: Modified AFNOR 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

Land Transport:

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

HSNO Approval Number: HSR002658

Site and Storage: Refer to the site and storage requirements for this Group Standard.
Refer to the HSNO controls for approved hazardous substances.

SECTION 16. OTHER INFORMATION

Abbreviations/acronyms:
STEL - Short term exposure limit
TWA - Time weighted average
HSNO - Hazardous Substances and New Organisms
GHS: Globally Harmonized System
CAS: Chemical Abstracts Service
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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