

Safety Data Sheet

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LOCTITE SI 5145 known as NUVA-SIL(R) 5145

SDS No. : 152782 V001.12 Revision: 03.08.2020 printing date: 02.03.2021

Section 1. Identification of the substance/preparation and of the company/undertaking Product name: LOCTITE SI 5145 known as NUVA-SIL(R) 5145

Other means of identification:LOCTITE SI 5145 TB40ML TEMPFLEXProduct code:IDH88318Recommended use of the chemical and restrictions on use

Intended use: Silicone sealant

Identification of manufacturer, importer or distributor Importer: Henkel Malaysia Sdn Bhd 46th Floor, Menara TM, Jalan Pantai Baharu, 59200 Kuala Lumpur, Malaysia. Phone :+ 603 22461000 Fax : + 60322461188

E-mail address of person responsible for Safety Data Sheet:

Emergency information:

FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEMTREC: +1 703-741-5970

Section 2. Hazards identification

GHS Classification:

Substance or mixture is not classified as hazardous according to Globally Harmonized System(GHS).

ap-ua-psra.sea@henkel.com

GHS label elements:

Substance or mixture is not classified as hazardous according to Globally Harmonized System(GHS).

Section 3. Composition / information on ingredients

Substance or Mixture:

Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
Dimethoxydimethylsilane	1- 10 %	Flammable liquids 2
1112-39-6		H225
tetraethyl silicate	1- 10 %	Flammable liquids 3
78-10-4		H226
		Acute toxicity 4; Inhalation
		H332
		Serious eye damage/eye irritation 2
		H319
		Specific target organ toxicity - single exposure 3
		H335
octamethylcyclotetrasiloxane	0.1- 1%	Flammable liquids 3
556-67-2		H226
		Toxic to reproduction 2
		H361
		Chronic hazards to the aquatic environment 4
		H413
1,1,1,3,3,3-Hexamethyldisilazane	0.1- 1%	Flammable liquids 2
999-97-3		H225
		Acute toxicity 4; Oral
		H302
		Acute toxicity 4; Inhalation
		H332
		Acute toxicity 3; Dermal
		H311
		Chronic hazards to the aquatic environment 3
		H412

Section 4. First aid measures		
Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.	
Skin contact:	Rinse with running water and soap. Obtain medical attention if irritation persists.	
Eye contact:	Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.	
Ingestion:	Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.	
Indication of immediate medical attention and special treatment needed:	See section: Description of first aid measures	

Section 5. Fire fighting measures

Suitable extinguishing media:

Carbon dioxide, foam, powder

Specific hazards arising from the chemical:	In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released. Silicon dioxide
Special protection equipment and precautions for firefighters:	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. Wear protective equipment. See advice in section 8
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	For small spills wipe up with paper towel and place in container for disposal. For large spills absorb onto inert absorbent material and place in sealed container for disposal. Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Handling:	Use only in well-ventilated areas. Vapours should be extracted to avoid inhalation. Avoid skin and eye contact. See advice in section 8
Storage:	Store in a cool, well-ventilated place. Refer to Technical Data SheetNever allow product to get in contact with water during storage

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

ETHYL SILICATE	Value type	Time Weighted Average (TWA):	
78-10-4			
	ppm	10	
	Remarks	ACGIH	
ETHYL SILICATE 78-10-4	Value type	Time Weighted Average (TWA):	
	ppm	10	
	mg/m ³	85	
	Remarks	MY OEL	
Respiratory protection:		ate ventilation.	
		mask or respirator fitted with an organic vapour cartridge should be worn if	
		used in a poorly ventilated area	
	Filter type: A	(EN 14387)	
Hand protection:	Chemical-resi	istant protective gloves (EN 374).	
-	Suitable mate	rials for short-term contact or splashes (recommended: at least protection	
	index 2, corresponding to > 30 minutes permeation time as per EN 374):		
	nitrile rubber (NBR; $>= 0.4$ mm thickness)		
	Suitable materials for longer, direct contact (recommended: protection index 6,		
	corresponding to > 480 minutes permeation time as per EN 374):		
	nitrile rubber (NBR; ≥ 0.4 mm thickness)		
		ion is based on literature references and on information provided by glove	
		s, or is derived by analogy with similar substances. Please note that in	
		orking life of chemical-resistant protective gloves may be considerably	
		he permeation time determined in accordance with EN 374 as a result of the	
		cing factors (e.g. temperature). If signs of wear and tear are noticed then the	
	gloves should be replaced.		
Eye protection:	Wear protecti		
	Protective eye	e equipment should conform to EN166.	
Body protection:		protective clothing.	
	Protective clo	thing should conform to EN 14605 for liquid splashes or to EN 13982 for	
	dusts.		
Engineering controls:	Provide local	and general exhaust ventilation to effectively remove and prevent buildup of	
		mists generated from the handling of this product.	
Hygienic measures:		aminated clothing and wash before reuse. Wash hands before work breaks	
	and after finis	hing work. Do not eat, drink or smoke while working.	

Section 9. Physical and chemical properties

Appearance:	transparent
	paste
Odor:	Alcoholic
Odor threshold (CA):	No data available.
pH:	Not applicable
Melting point / freezing point:	No data available.
Specific gravity:	1.1
Boiling point:	No data available.
Flash point:	36 °C (96.8 °F)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Lower explosive limit:	No data available.
Upper explosive limit:	No data available.
Vapor pressure:	< 13 mbar
(; 21 °C (69.8 °F))	

	Section 10. Stability and reactivity
VOC content: (2010/75/EC)	< 5 %
Viscosity:	No data available.
Decomposition temperature:	No data available.
Auto ignition:	No data available.
octanol/water:	
Partition coefficient: n-	No data available.
Solubility:	Polymerises in presence of water.
Density:	1.1 g/cm3
Vapor density:	No data available.

Reactivity/Incompatible	Polymerises in presence of water.
materials:	
Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	Exposure to air or moisture over prolonged periods.
	No decomposition if used according to specifications.
Hazardous decomposition products:	Methanol is liberated slowly upon exposure to moisture.

Section 11. Toxicological information

General toxicological information: Inhalative toxicity:	Methanol released during polymerisation of RTV silicones is toxic by inhalation. It is also highly flammable Acute toxicity estimate (ATE) : > 20 mg/l Exposure time: 4 h Test atmosphere: Vapor. Method: Calculation method
Dermal toxicity:	Acute toxicity estimate (ATE) : > 2,000 mg/kg Method: Calculation method
Symptoms of Overexposure:	Prolonged or repeated contact may cause skin irritation. Prolonged or repeated contact may cause eye irritation.

Acute oral toxicity:

Dimethoxydimethylsilane	Value type	LD50
1112-39-6	Value	> 2,007 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
tetraethyl silicate	Value type	LD50
78-10-4	Value	> 2,500 mg/kg
	Species	rat
	Method	OECD Guideline 423 (Acute Oral toxicity)
octamethylcyclotetrasiloxane	Value type	LD50
556-67-2	Value	>4.800 mg/kg
		, 1,000 mg ng
	Species	rat
	Species Method	
1,1,1,3,3,3-Hexamethyldisilazane		rat
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	Method	rat equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
	Method Value type	rat equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) LD50

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Acute inhalative toxicity:

octamethylcyclotetrasiloxane	Value type	LC50
556-67-2	Value	36 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)
1,1,1,3,3,3-Hexamethyldisilazane	Value type	Acute toxicity estimate (ATE)
999-97-3	Value	10.1 mg/l
	Exposure time	
	Species	
	species	

Acute dermal toxicity:

octamethylcyclotetrasiloxane	Value type	LD50
556-67-2	Value	> 2,375 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
1,1,1,3,3,3-Hexamethyldisilazane	Value type	LD50
999-97-3	Value	547 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

tetraethyl silicate	Result	not irritating
78-10-4	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
octamethylcyclotetrasiloxane	Result	not irritating
556-67-2	Exposure time	
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 404 (Acute Dermal
		Irritation / Corrosion)

Serious eye damage/irritation:

octamethylcyclotetrasiloxane	Result	not irritating
556-67-2	Exposure time	
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation
		/ Corrosion)

Respiratory or skin sensitization:

tetraethyl silicate	Result	not sensitising
78-10-4	Test type	Buehler test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
octamethylcyclotetrasiloxane	Result	not sensitising
556-67-2	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

tetraethyl silicate	Result	negative
78-10-4	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	EU Method B.13/14 (Mutagenicity)
octamethylcyclotetrasiloxane	Result	negative
556-67-2	Type of study / Route of administration	bacterial gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
octamethylcyclotetrasiloxane	Result	negative
556-67-2	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 473 (In vitro
		Mammalian Chromosome Aberration Test)
octamethylcyclotetrasiloxane	Result	negative
556-67-2	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 476 (In vitro
		Mammalian Cell Gene Mutation Test)
octamethylcyclotetrasiloxane	Result	negative
556-67-2	Type of study / Route of administration	inhalation
	Metabolic activation / Exposure time	
	Species	rat
	Method	equivalent or similar to OECD Guideline 475
		(Mammalian Bone Marrow Chromosome Aberration Test)
octamethylcyclotetrasiloxane	Result	negative
556-67-2	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	rat
	Method	equivalent or similar to OECD Guideline 478 (Genetic
		Toxicology: Rodent Dominant Lethal Test)
1,1,1,3,3,3-	Result	negative
Hexamethyldisilazane 999-97-3	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
1,1,1,3,3,3-	Result	negative
Hexamethyldisilazane	Type of study / Route of administration	mammalian cell gene mutation assay
999-97-3	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene
		Mutation Test)

Repeated dose toxicity:

octamethylcyclotetrasiloxane	Result	LOAEL=35 ppm
556-67-2	Route of application	inhalation
	Exposure time / Frequency of treatment	6 h nose only inhalation5 days/week for 13 weeks
	Species	rat
	Method	OECD Guideline 412 (Repeated Dose Inhalation Toxicity:
		28/14-Day)
octamethylcyclotetrasiloxane	Result	NOAEL=960 mg/kg
556-67-2	Route of application	dermal
	Exposure time / Frequency of treatment	3 w5 d/w
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 410 (Repeated
		Dose Dermal Toxicity: 21/28-Day Study)

Section 12. Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

Toxicity:

Dimethoxydimethylsilane	Value type	LC50
1112-39-6	Value	> 126 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)

Dimethoxydimethylsilane 1112-39-6	Value type	EC50
	Value	> 100 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Dimethoxydimethylsilane	Value type	EC50
1112-39-6	Value	> 118 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	118 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dimethoxydimethylsilane	Value type	EC10
1112-39-6	Value	> 100 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge of a predominantly domestic sewage
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
tetraethyl silicate	Value type	LC50
78-10-4	Value	> 245 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Brachydanio rerio (new name: Danio rerio)
	Method	EU Method C.1 (Acute Toxicity for Fish)
tetraethyl silicate	Value type	EC50
78-10-4	Value	> 75 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
tetraethyl silicate	Value type	NOEC
78-10-4	Value	22 mg/l
	Acute Toxicity Study	Algae 72 h
	Exposure time	
	Species	Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test)
	Method	
	Value type	EC50
	Value type Value	EC50 > 22 mg/l
	Value type Value Acute Toxicity Study	EC50 > 22 mg/l Algae
	Value type Value Acute Toxicity Study Exposure time	EC50 > 22 mg/l Algae 72 h
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tetraethyl silicate 78-10-4	Value type Value Acute Toxicity Study Exposure time Species Method Value type Value	EC50 > 22 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) EC50 > 100 mg/l
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78-10-4 octamethylcyclotetrasiloxane 556-67-2 octamethylcyclotetrasiloxane 556-67-2 1,1,1,3,3,3-Hexamethyldisilazane	Value typeValueAcute Toxicity StudyExposure timeSpeciesMethodValue typeValueAcute Toxicity StudyExposure timeSpeciesMethodValue typeValueAcute Toxicity StudyExposure timeSpeciesMethodValueAcute Toxicity StudyExposure timeSpeciesMethodValue typeValueAcute Toxicity StudyExposure timeSpeciesMethodValueAcute Toxicity StudyExposure timeSpeciesMethodValueValue typeValueValue typeValue typeValue typeValue typeValue typeValueValue	EC50 > 22 mg/l Algae 72 h Pseudokirchneriella subcapitata OECD Guideline 201 (Alga, Growth Inhibition Test) EC50 > 100 mg/l Bacteria 3 h activated sludge of a predominantly domestic sewage OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test) NOEC 0.0044 mg/l Fish 93 d Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test) EC10 0.022 mg/l Algae 96 h Selenastrum capricornutum (new name: Pseudokirchneriella subcapita EPA OTS 797.1050 (Algal Toxicity, Tiers I and II) LC50 88 mg/l

SDS No.: 152782 V001.12

LOCTITE SI 5145 known as NUVA-SIL(R) 5145

1,1,1,3,3,3-Hexamethyldisilazane	Value type	EC50
999-97-3	Value	80 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1,1,1,3,3,3-Hexamethyldisilazane	Value type	NOEC
999-97-3	Value	2.7 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC50
	Value	19 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)

Persistence and degradability:

Dimethoxydimethylsilane	Result	not readily biodegradable.
1112-39-6	Route of application	aerobic
	Degradability	0 %
	Method	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels
		(Headspace Test)
tetraethyl silicate	Result	readily biodegradable
78-10-4	Route of application	aerobic
	Degradability	98 %
	Method	OECD Guideline 301 A (old version) (Ready Biodegradability: Modified
		AFNOR Test)
octamethylcyclotetrasiloxane	Result	not readily biodegradable.
556-67-2	Route of application	aerobic
	Degradability	3.7 %
	Method	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels
		(Headspace Test)
1,1,1,3,3,3-	Result	not readily biodegradable.
Hexamethyldisilazane	Route of application	no data
999-97-3	Degradability	15.3 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

Bioaccumulative potential / Mobility in soil:

Dimethoxydimethylsilane	LogPow	2
1112-39-6	Temperature	20 °C
	Method	QSAR (Quantitative Structure Activity Relationship)
tetraethyl silicate	LogPow	0.04
78-10-4	Temperature	
	Method	QSAR (Quantitative Structure Activity Relationship)
octamethylcyclotetrasiloxane	Bioconcentration factor (BCF)	12,400
556-67-2	Exposure time	28 d
	Species	Pimephales promelas
	Temperature	
	Method	EPA OTS 797.1520 (Fish Bioconcentration Test-Rainbow Trout)
octamethylcyclotetrasiloxane	LogPow	6.488
556-67-2	Temperature	25.1 °C
	Method	OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow-
		Stirring Method)

Section 13. Disposal considerations

Product

Method of disposal:

Dispose of in accordance with local and national regulations.

Contribution of this product to waste is very insignificant in comparison to article in which it is used

Collection and delivery to recycling enterprise or other registered elimination institution.

Packaging

Disposal of uncleaned packages:	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.
	Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Section 14. Transport information

Road transport ADR: Not dangerous goods

Railroad transport RID: Not dangerous goods

Inland water transport ADN: Not dangerous goods

Marine transport IMDG: Not dangerous goods

Air transport IATA: Not dangerous goods

Section 15. Regulatory information

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Regulatory Information:
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Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 [P.U.(A) 310/213] Industry Code of Practice on Chemicals Classification and Hazard Communication

Global inventory status:

Regulatory list	Notification
TSCA	yes
DSL	yes
KECI (KR)	yes
ENCS (JP)	yes
ISHL (JP)	yes
IECSC	yes
AICS	yes
PICCS (PH)	yes
CH INV	yes
EINECS	yes

Section 16. Other information

1100	laimer:
DISU	anner.

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