

# **Safety Data Sheet**

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SDS No.: 153776

V002.10

Revision: 27.01.2022 printing date: 16.09.2024

Upper respiratory tract

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

#### **Product name:**

LOCTITE SI 587 known as LOCTITE 587 300ML EN

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#### Other means of identification:

LOCTITE SI 587 300MLENLOCTITE SI 587 300MLEN

### **Product code:**

IDH234590

Recommended use of the chemical and restrictions on use

#### **Intended use:**

Silicone sealant

#### Identification of manufacturer, importer or distributor

Manufacturer: Henkel Loctite (China) Co. Ltd, No. 90 Zhu Jiang Road, Yantai Economic, Technological Development Zone, 264006 Shangdong Province, China Tel: +86-535-6399803 Fax: +86-535-6371999

Importer: Henkel Thailand Ltd The Offices at Centralworld, 35th Floor, 999/9 Rama 1 Rd, Kwang Patumwan, Khet Patumwan, Bangkok 10330, Thailand. Phone: +6622098000 Fax: +6622098008

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

ap-ua-psra.sea@henkel.com

### **Emergency information:**

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

### Section 2. Hazards identification

### **GHS Classification:**

**Hazard Class Hazard Category** Target organ

Category 3

Serious eye damage/eye irritation Category 1 Skin sensitizer Category 1 Category 1B Carcinogenicity Category 2 Specific target organ toxicity -

single exposure Chronic hazards to the aquatic

environment

**GHS** label elements:

Hazard pictogram:



#### Signal word:

Danger

### Hazard statement:

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H350 May cause cancer.

H371 May cause damage to the following organs:

H412 Harmful to aquatic life with long lasting effects.

#### **Precaution:**

#### **Prevention:**

P201 Obtain special instructions before use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Response:

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P311 If exposed or concerned: Call a POISON CENTER/doctor.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

### Disposal:

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

### Section 3. Composition / information on ingredients

### **Substance or Mixture:**

Mixture

### **Declaration of hazardous chemical:**

Hazard component CAS-No.	Co	ntent	GHS Classification
Limestone	30-	60 %	
1317-65-3		10	
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9		10 %	
Butan-2-one O,O',O"-(vinylsilylidyne)trioxime 2224-33-1	1-	10 %	Acute toxicity 5; Oral H303 Serious eye damage/eye irritation 1 H318 Skin sensitizer 1 H317 Specific target organ toxicity - repeated exposure 2
			H373 Acute hazards to the aquatic environment 3 H402
2-butanone oxime 96-29-7	1-	10 %	Flammable liquids 4 H227 Acute toxicity 3; Oral H301 Acute toxicity 4; Dermal H312 Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 1 H318 Skin sensitizer 1 H317 Carcinogenicity 1B; Inhalation H350 Specific target organ toxicity - single exposure 1 H370 Specific target organ toxicity - single exposure 3 H336 Specific target organ toxicity - repeated exposure 2 H373 Acute hazards to the aquatic environment 3 H402
octamethylcyclotetrasiloxane 556-67-2	< (	0.1 %	Flammable liquids 3 H226 Toxic to reproduction 2 H361 Chronic hazards to the aquatic environment 1 H410

# 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 if necessary.

#### **Ingestion:**

Do not induce vomiting. Seek medical advice.

### 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

#### Special protection equipment and precautions for firefighters:

Wear self-contained breathing apparatus.

### **Hazardous combustion products:**

Formaldehyde Silica fume

#### Additional fire fighting advice:

In case of fire, keep containers cool with water spray.

#### Section 6. Accidental release measures

#### **Personal precautions:**

Avoid skin and eye contact.

Wear protective equipment.

Ensure adequate ventilation.

See advice in section 8

#### **Environmental precautions:**

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

#### Clean-up methods:

Scrape up as much material as possible.

Store in a partly filled, closed container until 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 Sheet

Never allow product to get in contact with water during storage

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### Section 8. Exposure controls / personal protection

#### Components with specific control parameters for workplace:

CALCIUM CARBONATE, RESPIRABLE DUST	Value type	Time Weighted Average (TWA):
1317-65-3		5
	mg/m³	TH OEL
	Remarks	
Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles 1317-65-3	Value type	Time Weighted Average (TWA):
	mg/m <sup>3</sup>	10
	Remarks	ACGIH
Particles (insoluble or poorly soluble) not otherwise specified, respirable particles 1317-65-3	Value type	Time Weighted Average (TWA):
	mg/m <sup>3</sup>	3
	Remarks	ACGIH
Limestone 1317-65-3	Value type	Time Weighted Average (TWA):
	mg/m <sup>3</sup>	10
CALCIUM CARBONATE, INHALABLE DUST 1317-65-3	Value type	Time Weighted Average (TWA):
	mg/m <sup>3</sup>	15
	Remarks	TH OEL
Particles (insoluble or poorly soluble) not otherwise specified, respirable particles 68611-44-9	Value type	Time Weighted Average (TWA):
	mg/m <sup>3</sup>	3
	Remarks	ACGIH
Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles 68611-44-9	Value type	Time Weighted Average (TWA):
	mg/m <sup>3</sup>	10
	Remarks	ACGIH

### ${\bf Respiratory\ protection:}$

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A (EN 14387)

#### Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials 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)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

#### **Eye protection:**

Wear protective glasses.

Protective eye equipment should conform to EN166.

### **Body protection:**

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

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#### **Engineering controls:**

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

#### **Hygienic measures:**

Take off contaminated clothing and wash before reuse.

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

### Section 9. Physical and chemical properties

blue Appearance:

paste

mild

No data available. Odor threshold (CA): Not applicable **Melting point / freezing point:** No data available.

Specific gravity: 1.31

No data available. **Boiling point:** Flash point: > 93 °C (> 199.4 °F)

(Tagliabue closed cup)

**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: < 6.5 mbar

(; 20 °C (68 °F))

Vapor density: No data available. Density: 1.31 g/cm3

Solubility: Polymerises in presence of water.

Partition coefficient: n-No data available.

octanol/water:

No data available. Auto ignition: **Decomposition temperature:** No data available. No data available. Viscosity:

**VOC** content: No data available.

### Section 10. Stability and reactivity

#### Reactivity/Incompatible materials:

Polymerises in presence of water.

Chemical stability:

Stable under recommended storage conditions.

Conditions to avoid:

Exposure to air or moisture over prolonged periods.

Hazardous decomposition products:

Methyl ethyl ketoxime formed during cure.

### Section 11. Toxicological information

General toxicological Methylethyl ketoxime released during polymerisation of oxime curing RTV silicones is

information: irritating to the respiratory system

Methylethyl ketoxime released during polymerisation of oxime curing silicones. It is harmful

in contact with skin and is a skin sensitizer.

Oral toxicity: Acute toxicity estimate (ATE): > 2,000 mg/kg

Method: Calculation method

**Dermal toxicity:** Acute toxicity estimate (ATE): > 2,000 mg/kg

Method: Calculation method

# LOCTITE SI 587 known as LOCTITE 587 300ML EN

Symptoms of Overexposure: SKIN: Rash, Urticaria.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

# Acute oral toxicity:

Limestone	Value type	LD50
1317-65-3	Value	> 5,000 mg/kg
	Species	rat
	Method	not specified
Silane, dichlorodimethyl-, reaction	Value type	LD50
products with silica	Value	> 5,000 mg/kg
68611-44-9	Species	rat
	Method	not specified
Butan-2-one O,O',O"-	Value type	LD50
(vinylsilylidyne)trioxime	Value	> 2,000 mg/kg
2224-33-1	Species	rat
	Method	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down
		Procedure)
Butan-2-one O,O',O"-	Value type Acute toxicity estimate (ATE)	
(vinylsilylidyne)trioxime	Value	2,500 mg/kg
2224-33-1	Species	
	Method	Expert judgement
2-butanone oxime	Value type	Acute toxicity estimate (ATE)
96-29-7	Value	100 mg/kg
	Species	
	Method	Expert judgement
octamethylcyclotetrasiloxane	Value type	LD50
556-67-2	Value	> 4,800 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)

# 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)

# Acute dermal toxicity:

Limestone	Value type	LD50
1317-65-3	Value	> 5,000 mg/kg
	Species	rat
	Method	not specified
Silane, dichlorodimethyl-, reaction	Value type	LD50
products with silica	Value	> 2,000 mg/kg
68611-44-9	Species	rat
	Method	not specified
Butan-2-one O,O',O"-	Value type	LD50
(vinylsilylidyne)trioxime	Value	> 2,009 mg/kg
2224-33-1	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
2-butanone oxime	Value type	Acute toxicity estimate (ATE)
96-29-7	Value	1,100 mg/kg
	Species	
	Method	Expert judgement
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)

### Skin corrosion/irritation:

Limestone	Result	not irritating
1317-65-3	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Silane, dichlorodimethyl-, reaction	Result	not irritating
products with silica	Exposure time	4 h
68611-44-9	Species	rabbit
	Method	not specified
Butan-2-one O,O',O"-	Result	not irritating
(vinylsilylidyne)trioxime	Exposure time	4 h
2224-33-1	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:

Limestone	Result	not irritating
1317-65-3	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Silane, dichlorodimethyl-, reaction	Result	not irritating
products with silica	Exposure time	
68611-44-9	Species	rabbit
	Method	not specified
2-butanone oxime	Result	Category 1 (irreversible effects on the eye)
96-29-7	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
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:

Limestone	Result	not sensitising
1317-65-3	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Silane, dichlorodimethyl-, reaction	Result	not sensitising
products with silica	Test type	Patch-Test
68611-44-9	Species	human
	Method	human repeat insult patch test
Butan-2-one O,O',O"-	Result	Sensitizing
(vinylsilylidyne)trioxime 2224-33-1	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
2-butanone oxime	Result	sensitising
96-29-7	Test type	Guinea pig maximisation 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:

Type of study / Route of administration Metabolic activation / Exposure time Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Limestone 1317-65-3  Result negative 1317-65-3  Metabolic activation / Exposure time Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Result negative 1317-65-3  Method OECD Guideline 473 (In vitro Mammalian Chromosome aberration test With and without OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)  Limestone 1317-65-3  Result negative 1317-65-3  Metabolic activation / Exposure time Method OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Method Ames Test  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Method Ames Test  Type of study / Route of administration in vitro mammalian chromosome aberration test  Metabolic activation / Exposure time with and without  Method Ames Test  Type of study / Route of administration in vitro mammalian chromosome aberration test  Metabolic activation / Exposure time with and without  Method Chromosome Aberration Test		T= 4	T .
Method Method OFEO Guideline 471 (Bacterial Reverse Mutation Assay) Linestone Lineston	Limestone	Result	negative
Limestone   Result   Type of study / Route of administration   Metabolic activation / Exposure time   Metabolic activation / Exposure t	1317-65-3		
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Type of study / Route of administration   with an without wi		Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Metabolic activation / Exposure time   with and without   Aberration Test)   Aberration	Limestone	Result	negative
Method   OECD Guideline 473 (in vitro Mammalian Chromosome Aberration Test)   Description of the Method   Description of the Mutation Test)   Description of the Mutation Test   Description Test   Description of the Mutation Test   Description of the Mutation Test   Description T	1317-65-3	Type of study / Route of administration	in vitro mammalian chromosome aberration test
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Result			
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Metabolic activation / Exposure time   with and without   Metabolic activation   Exposure time   Armes Test			
Method   OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)	1317 03 3		
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Method   Ames Text			
Result	08011-44-9		
reaction products with silica (86611-444-9)  Butan-2-one O,O,O'- (Winylsilylidyne)trioxime (2224-33-1)  Butan-2-one O,O,O'- (Winylsilylidylidylidylidylidylidylidylidylidyl			
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Cymylstylidyne)trioxime   Type of study / Route of administration   bacterial reverse mutation assay (e.g. Ames test)	Butan-2-one O,O',O"-		
Metabolic activation / Exposure time   Method			
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Metabolic activation / Exposure time   Species   Micronucleus Test)			
Species   Method   OECD Guideline 474 (Mammalian Erythrocyte   Micronucleus Test)			intraperitoneal
Method   OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)	2224-33-1		
2-butanone oxime 96-29-7  Result Type of study / Route of administration Metabolic activation / Exposure time Method  Result Type of study / Route of administration Metabolic activation / Exposure time Method  Result Type of study / Route of administration Metabolic activation / Exposure time Method  2-butanone oxime 96-29-7  Result Type of study / Route of administration Metabolic activation / Exposure time Method  Cells In Vitro)  Result Type of study / Route of administration Metabolic activation / Exposure time Method  Cells In Vitro)  Poeces Attached to the pagative  Poeces  Poeces Poeces Pagative  Cells In Vitro)  Result Type of study / Route of administration Metabolic activation / Exposure time Method  Cells In Vitro)  Poeces Poeces Poeces Poeces Pagative  Poeces Pagative  Poeces Pagative  Poeces Poeces Pagative  Poeces Poeces Pagative  Poeces Poeces Pagative  Poeces Pagative Poeces Pagative Poeces Poeces Pagative Poeces Pagative Poeces Pagative Poeces Pagative Poeces Poeces Pagative Poeces Poe		•	
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Type of study / Route of administration   bacterial reverse mutation assay (e.g. Ames test)			Micronucleus Test)
Metabolic activation / Exposure time   with and without	2-butanone oxime	Result	
Metabolic activation / Exposure time   with and without	96-29-7	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
Method   EPA OPPTS 870.5265 (The Salmonella typhimurium Bacterial Reverse Mutation Test)			with and without
Result   Regative   Metabolic activation / Exposure time   Mutation Test)			EPA OPPTS 870.5265 (The Salmonella typhimurium
Type of study / Route of administration   Metabolic activation / Exposure time   Method   OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)			
Type of study / Route of administration   Metabolic activation / Exposure time   Method   OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)	2-butanone oxime	Result	negative
Metabolic activation / Exposure time   with	96-29-7	Type of study / Route of administration	
Method   OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)			
2-butanone oxime 96-29-7 Result Pype of study / Route of administration Metabolic activation / Exposure time Method Pocapara  Pocapara  Result Pype of study / Route of administration Metabolic activation / Exposure time Pocapara  Result Pype of study / Route of administration Pocapara  Result Pype of study / Route of administration Pocapara  Result Pype of study / Route of administration Pocapara  Result Pype of study / Route of administration Pype of study / Route of administratio			
2-butanone oxime 96-29-7  Metabolic activation / Exposure time Method  Poscapara  Result  Metabolic activation / Exposure time Method  Result  Type of study / Route of administration  Metabolic activation / Exposure time  Poscapara  Result  Type of study / Route of administration  Metabolic activation / Exposure time  Poscapara  Result  Type of study / Route of administration  Metabolic activation / Exposure time  Species  Result  Result  Poscapara  Result  Result  Poscapara  Result  Type of study / Route of administration  Metabolic activation / Exposure time  Species  Result  Type of study / Route of administration  Metabolic activation / Exposure time  Species  Method  Result  Type of study / Route of administration  Metabolic activation / Exposure time  Species  Method  Result  Type of study / Route of administration  Metabolic activation / Exposure time  Species  Method  Result  Resul		Wethou	
Type of study / Route of administration   DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	2 hutanona ovima	Pacult	
Synthesis in mammalian cells in vitro			
Metabolic activation / Exposure time   Method   OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)	90-29-1	Type of study / Route of administration	
Method   OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)  2-butanone oxime   Result   negative   96-29-7   Type of study / Route of administration   oral: gavage		Matchalia activation / E ti-	Synthesis in manimanan cens in vitro
and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)  2-butanone oxime 96-29-7  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Posspecies Type of study / Route of administration Metabolic activation / Exposure time Species Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Cotamethylcyclotetrasiloxane Species Type of study / Route of administration Metabolic activation / Exposure time Species Method  Cotamethylcyclotetrasiloxane Species Type of study / Route of administration Metabolic activation / Exposure time Metabolic activation / Exposure time Metabolic activation / Exposure time Method  OECD Guideline 471 (Bacterial Reverse Mutation Assay) Octamethylcyclotetrasiloxane Species Type of study / Route of administration Type of study / Route of administration Type of study / Route of administration Metabolic activation / Exposure time Method OECD Guideline 471 (Bacterial Reverse Mutation Assay) Type of study / Route of administration Type of			OECD Cuid-line 400 (C T
Cells In Vitro)   2-butanone oxime   Result   negative		ivietnod	OECD Guideline 482 (Genetic Toxicology: DNA Damage
2-butanone oxime 96-29-7    Result			
96-29-7    Type of study / Route of administration   oral: gavage	2.1	D I	
Metabolic activation / Exposure time   Species   rat			
Species   rat     Method   EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  2-butanone oxime   Result   negative     7 ype of study / Route of administration   Metabolic activation / Exposure time     Species   Drosophila melanogaster     Method   EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)     octamethylcyclotetrasiloxane   Species   Type of study / Route of administration   bacterial gene mutation assay     Method   OECD Guideline 471 (Bacterial Reverse Mutation Assay)     octamethylcyclotetrasiloxane   Result   negative     octamethylcyclotetrasiloxane   Result   negative     octamethylcyclotetrasiloxane   Result   negative     Type of study / Route of administration   negative     Type of study / Route of administration   in vitro mammalian chromosome aberration test	96-29-7		oral: gavage
Method   EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)			
2-butanone oxime 96-29-7  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Octamethylcyclotetrasiloxane 556-67-2  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Result Type of study / Route of administration Metabolic activation / Exposure time Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Result Type of study / Route of administration OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Result Type of study / Route of administration In regative Type of study / Route of administration Type of study / Route of			
2-butanone oxime 96-29-7 Result negative Type of study / Route of administration oral: feed Metabolic activation / Exposure time Species Drosophila melanogaster Method EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) octamethylcyclotetrasiloxane 556-67-2 Result negative 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 556-67-2 Type of study / Route of administration in vitro mammalian chromosome aberration test		Method	EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic
96-29-7  Type of study / Route of administration oral: feed  Metabolic activation / Exposure time Species Drosophila melanogaster Method EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  octamethylcyclotetrasiloxane 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 556-67-2  Type of study / Route of administration in vitro mammalian chromosome aberration test			
96-29-7  Type of study / Route of administration oral: feed  Metabolic activation / Exposure time Species Drosophila melanogaster Method EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  octamethylcyclotetrasiloxane 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 556-67-2  Type of study / Route of administration in vitro mammalian chromosome aberration test	2-butanone oxime	Result	negative
Metabolic activation / Exposure time       Species     Drosophila melanogaster       Method     EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)       octamethylcyclotetrasiloxane     Result     negative       556-67-2     Type of study / Route of administration Method     bacterial gene mutation assay       Metabolic activation / Exposure time Method     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			
Species Drosophila melanogaster Method EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  octamethylcyclotetrasiloxane 556-67-2  Result negative  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 556-67-2  Result negative  Type of study / Route of administration in vitro mammalian chromosome aberration test			
Method     EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)       octamethylcyclotetrasiloxane 556-67-2     Result     negative       Type of study / Route of administration Method     bacterial gene mutation assay       Metabolic activation / Exposure time Method     with and without       Octamethylcyclotetrasiloxane 556-67-2     Result     negative       Type of study / Route of administration     in vitro mammalian chromosome aberration test			Drosophila melanogaster
cotamethylcyclotetrasiloxane     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			
octamethylcyclotetrasiloxane 556-67-2  Result negative  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 556-67-2  Result negative  Type of study / Route of administration in vitro mammalian chromosome aberration test			
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 556-67-2 Result negative  Type of study / Route of administration in vitro mammalian chromosome aberration test	octamethylovolotetracilovona	Regult	
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			
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	330 01-2		
octamethylcyclotetrasiloxane 556-67-2 Result negative negative Type of study / Route of administration in vitro mammalian chromosome aberration test			With and Without
556-67-2 Type of study / Route of administration in vitro mammalian chromosome aberration test			
	octamethylcyclotetrasiloxane	l Result	negative
Metabolic activation / Exposure time with and without			
		Type of study / Route of administration	in vitro mammalian chromosome aberration test

	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)

### Repeated dose toxicity:

Limestone	Result	NOAEL=1,000 mg/kg
1317-65-3	Route of application	oral: gavage
	Exposure time / Frequency of treatment	48 ddaily
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Silane, dichlorodimethyl-,	Result	NOAEL=500 mg/kg
reaction products with silica	Route of application	oral: feed
68611-44-9	Exposure time / Frequency of treatment	5-8 wdaily
	Species	rat
	Method	not specified
Butan-2-one O,O',O"-	Result	LOAEL=40 mg/kg
(vinylsilylidyne)trioxime	Route of application	oral: gavage
2224-33-1	Exposure time / Frequency of treatment	13 w5 d/week
	Species	rat
	Method	EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
2-butanone oxime	Result	LOAEL=40 mg/kg
96-29-7	Route of application	oral: gavage
	Exposure time / Frequency of treatment	13 w5 d/week
	Species	rat
	Method	EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
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: Cured Loctite products are typical polymers and do not pose any immediate

environmental hazards., Precautions required with respect to Environmental Hazards of articles in which this product is used should be considered., Do not

 $empty\ into\ drains\ /\ surface\ water\ /\ ground\ water.$ 

**Ecotoxicity:** Harmful to aquatic life with long lasting effects.

## **Toxicity:**

Limestone	Value type	LC50
1317-65-3	Value	> 10,000 mg/l

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	A ( TO 11: O: 1	r: 1
	Acute Toxicity Study	Fish 96 h
	Exposure time Species	not specified
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Limestone	Value type	EC50
1317-65-3	Value	> 1,000 mg/l
131, 03 3	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Limestone	Value type	EC50
1317-65-3	Value	> 200 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	not specified
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Limestone	Value type	EC50
1317-65-3	Value	> 1,000 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)
Silane, dichlorodimethyl-, reaction	Value type	LC50
products with silica 68611-44-9	Value	> 10,000 mg/l
00011-44-9	Acute Toxicity Study	Fish 96 h
	Exposure time	
	Species Method	Brachydanio rerio (new name: Danio rerio) OECD Guideline 203 (Fish, Acute Toxicity Test)
Cilono diablamatimathyl magatian	Value type	EC50
Silane, dichlorodimethyl-, reaction products with silica	Value	> 10,000 mg/l
68611-44-9	Acute Toxicity Study	Daphnia
00011 117	Exposure time	24 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Butan-2-one O,O',O"-	Value type	LC50
(vinylsilylidyne)trioxime	Value	> 560 mg/l
2224-33-1	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Brachydanio rerio (new name: Danio rerio)
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type	NOEC
	Value	50 mg/l
	Acute Toxicity Study	Fish
	Exposure time	14 d
	Species	Oryzias latipes
	Method	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Butan-2-one O,O',O"-	Value type	EC50
(vinylsilylidyne)trioxime 2224-33-1	Value	201 mg/l
2224-33-1	Acute Toxicity Study Exposure time	Daphnia 48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Butan-2-one O,O',O"-	Value type	EC50
(vinylsilylidyne)trioxime	Value	94 mg/l
2224-33-1	Acute Toxicity Study	Algae
2224-33-1	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	30 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-butanone oxime	Value type	LC50
96-29-7	Value	320 - 1,000 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Leuciscus idus
•	Method	DIN 38412-15

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	Value type	NOEC
	Value	50 mg/l
	Acute Toxicity Study	Fish
	Exposure time	14 d
	Species	Oryzias latipes
	Method	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
2-butanone oxime	Value type	EC50
96-29-7	Value	> 500 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	EU Method C.2 (Acute Toxicity for Daphnia)
2-butanone oxime	Value type	EC50
96-29-7	Value	11.8 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus capricornutum
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	2.56 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus capricornutum
21	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-butanone oxime 96-29-7	Value type Value	EC10
96-29-7	7 41-47-4	177 mg/l
	Acute Toxicity Study	Bacteria 17 h
	Exposure time Species	1/11
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
octamethylcyclotetrasiloxane	Value type	NOEC
556-67-2	Value	0.0044 mg/l
330 07 2	Acute Toxicity Study	Fish
	Exposure time	93 d
	Species	Salmo gairdneri (new name: Oncorhynchus mykiss)
	Species Method	Salmo gairdneri (new name: Oncorhynchus mykiss) EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)
	Species Method Value type	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50
	Species Method Value type Value	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility
	Species Method Value type Value Acute Toxicity Study Exposure time Species	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss
	Species Method Value type Value Acute Toxicity Study Exposure time	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h
octamethylcyclotetrasiloxane	Species Method Value type Value Acute Toxicity Study Exposure time Species	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50
octamethylcyclotetrasiloxane 556-67-2	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility
	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia
	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia  48 h
	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia  48 h  Daphnia magna
	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia  48 h  Daphnia magna  EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test,
556-67-2	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia  48 h  Daphnia magna  EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test,  Freshwater Daphnids)
556-67-2 octamethylcyclotetrasiloxane	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia  48 h  Daphnia magna  EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test,  Freshwater Daphnids)  EC50
556-67-2	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Value type Value	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia  48 h  Daphnia magna  EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)  EC50  Toxicity > Water solubility
556-67-2 octamethylcyclotetrasiloxane	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia  48 h  Daphnia magna  EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)  EC50  Toxicity > Water solubility  Daphnia magna
556-67-2 octamethylcyclotetrasiloxane	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Exposure type Value Acute Toxicity Study Exposure time	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia  48 h  Daphnia magna  EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)  EC50  Toxicity > Water solubility  Daphnia magna  EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)  EC50  Toxicity > Water solubility  Algae  96 h
556-67-2 octamethylcyclotetrasiloxane	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Exposure type Value Acute Toxicity Study Exposure time Species	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia  48 h  Daphnia magna  EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)  EC50  Toxicity > Water solubility  Algae  96 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
556-67-2 octamethylcyclotetrasiloxane	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia  48 h  Daphnia magna  EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)  EC50  Toxicity > Water solubility  Algae  96 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
556-67-2 octamethylcyclotetrasiloxane	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia  48 h  Daphnia magna  EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)  EC50  Toxicity > Water solubility  Algae  96 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)  EC10
556-67-2 octamethylcyclotetrasiloxane	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Value type Value Value type Value Value type Value	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia  48 h  Daphnia magna  EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)  EC50  Toxicity > Water solubility  Algae  96 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)  EC10  0.022 mg/I
556-67-2 octamethylcyclotetrasiloxane	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia  48 h  Daphnia magna  EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)  EC50  Toxicity > Water solubility  Algae  96 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)  EC10
556-67-2 octamethylcyclotetrasiloxane	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia  48 h  Daphnia magna  EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)  EC50  Toxicity > Water solubility  Algae  96 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)  EC10  0.022 mg/l  Algae  96 h
556-67-2 octamethylcyclotetrasiloxane	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish 96 h Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia 48 h Daphnia magna  EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)  EC50  Toxicity > Water solubility  Algae 96 h Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)  EC10  0.022 mg/l  Algae 96 h Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
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556-67-2 octamethylcyclotetrasiloxane	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish 96 h Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia 48 h Daphnia magna  EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)  EC50  Toxicity > Water solubility  Algae 96 h Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)  EC10  0.022 mg/l  Algae 96 h Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)  EC50
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octamethylcyclotetrasiloxane 556-67-2 octamethylcyclotetrasiloxane octamethylcyclotetrasiloxane	Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species Method  Value type Value Acute Toxicity Study Exposure time Species	Salmo gairdneri (new name: Oncorhynchus mykiss)  EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)  LC50  Toxicity > Water solubility  Fish  96 h  Oncorhynchus mykiss  EPA OTS 797.1400 (Fish Acute Toxicity Test)  EC50  Toxicity > Water solubility  Daphnia  48 h  Daphnia magna  EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)  EC50  Toxicity > Water solubility  Algae  96 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)  EC10  0.022 mg/l  Algae  96 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)  EC50  Toxicity > Water solubility  Balae  96 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)  EC50  Toxicity > Water solubility  Bacteria  3 h

### Persistence and degradability:

Butan-2-one O,O',O"-	Result	not readily biodegradable.
(vinylsilylidyne)trioxime	Route of application	aerobic
2224-33-1	Degradability	26 %
	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
2-butanone oxime	Result	inherently biodegradable
96-29-7	Route of application	aerobic
	Degradability	70 %
	Method	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA
		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)

#### Bioaccumulative potential / Mobility in soil:

2-butanone oxime	Bioconcentration factor (BCF)	0.5 - 0.6
96-29-7	Exposure time	42 d
	Species	Oryzias latipes
	Temperature	25 °C
	Method	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of
		Bioconcentration in Fish)
2-butanone oxime	LogPow	0.65
96-29-7	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
		Flask Method)
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 556-67-2	LogPow	6.488
	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

### **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

#### **Regulatory Information:**

Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555

#### **Global inventory status:**

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

### Section 16. Other information

#### Disclaimer:

This Safety Data Sheet has been generated based on Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555 only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance. This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Dear Customer,

Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your\_company.com).