



## Safety Data Sheet according to (EC) No 1907/2006

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LOCTITE SI 5399 RD known as 5399 RED 310ML GB

SDS No. : 164825  
V006.2

Revision: 13.02.2015  
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Replaces version from: 22.10.2013

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

LOCTITE SI 5399 RD known as 5399 RED 310ML GB

#### Contains:

Methyltriacetoxysilane  
Triacetoxethylsilane

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use:  
Silicone sealant

#### 1.3. Details of the supplier of the safety data sheet

Henkel Limited  
2 Bishop Square Business Park  
AL109EY Herfordshire Hatfield

Great Britain

Phone: +44 1606 593933  
Fax-no.: +44 1606 863762

ua-productsafety.uk@uk.henkel.com

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

Skin irritation	Category 2
H315 Causes skin irritation.	
Serious eye damage	Category 1
H318 Causes serious eye damage.	

##### Classification (DPD):

The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.

#### 2.2. Label elements

##### Label elements (CLP):

**Hazard pictogram:****Signal word:**

Danger

**Hazard statement:**H315 Causes skin irritation.  
H318 Causes serious eye damage.**Precautionary statement:  
Prevention**

P280 Wear eye protection/face protection.

**Precautionary statement:  
Response**P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.**Label elements (DPD):**

The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.

## Additional labeling:

Safety data sheet available for professional user on request.

**2.3. Other hazards**

None if used properly.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****General chemical description:**

Acetoxy curing silicone

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Triacetoxyethylsilane 17689-77-9	241-677-4 01-2119881778-15	1 - < 3 %	Acute toxicity 4; Oral H302 Skin corrosion 1B H314
Methyltriacetoxyasilane 4253-34-3	224-221-9 01-2119962266-32	1 - < 3 %	Acute toxicity 4; Oral H302 Skin corrosion 1B H314

For full text of the H - statements and other abbreviations see section 16 "Other information".  
Substances without classification may have community workplace exposure limits available.

**Declaration of ingredients according to DPD (EC) No 1999/45:**

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Triacetoxyethylsilane 17689-77-9	241-677-4 01-2119881778-15	1 - < 3 %	R14 Xn - Harmful; R22 C - Corrosive; R34
Methyltriacetoxyasilane 4253-34-3	224-221-9 01-2119962266-32	1 - < 3 %	R14 C - Corrosive; R34 Xn - Harmful; R22

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.  
Substances without classification may have community workplace exposure limits available.

Acetic acid produced on exposure to moisture.

## SECTION 4: First aid measures

### 4.1. Description of 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.

### 4.2. Most important symptoms and effects, both acute and delayed

SKIN: Redness, inflammation.

EYE: Irritation, conjunctivitis.

### 4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Carbon dioxide, foam, powder  
Fine water spray

#### Extinguishing media which must not be used for safety reasons:

None known

### 5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) can be released.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus.

#### Additional information:

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.  
Ensure adequate ventilation.

### 6.2. Environmental precautions

Do not let product enter drains.

### 6.3. Methods and material for containment and cleaning up

Scrape up as much material as possible.  
Ensure adequate ventilation.  
Store in a partly filled, closed container until disposal.

### 6.4. Reference to other sections

See advice in section 8

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Use only in well-ventilated areas.  
Vapours should be extracted to avoid inhalation.  
Avoid skin and eye contact.  
See advice in section 8

**Hygiene measures:**

Good industrial hygiene practices should be observed.  
Do not eat, drink or smoke while working.  
Wash hands before work breaks and after finishing work.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in a cool, well-ventilated place.  
Never allow product to get in contact with water during storage

**7.3. Specific end use(s)**

Silicone sealant

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational Exposure Limits**

Valid for  
Great Britain

None

**Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Triacetoxyethylsilane 17689-77-9	aqua (freshwater)					>= 0,2 mg/L	
Triacetoxyethylsilane 17689-77-9	aqua (marine water)					>= 0,02 mg/L	
Triacetoxyethylsilane 17689-77-9	aqua (intermittent releases)					1,7 mg/L	
Triacetoxyethylsilane 17689-77-9	sediment (freshwater)				>= 0,16 mg/kg		
Triacetoxyethylsilane 17689-77-9	sediment (marine water)				>= 0,016 mg/kg		
Triacetoxyethylsilane 17689-77-9	soil				>= 0,031 mg/kg		
Triacetoxyethylsilane 17689-77-9	STP					> 1 mg/L	

**Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Triacetoxyethylsilane 17689-77-9	Workers	Inhalation	Long term exposure - local effects		32,5 mg/m <sup>3</sup>	
Triacetoxyethylsilane 17689-77-9	Workers	Inhalation	Acute/short term exposure - local effects		32,5 mg/m <sup>3</sup>	
Triacetoxyethylsilane 17689-77-9	general population	Inhalation	Acute/short term exposure - local effects		65 mg/m <sup>3</sup>	
Triacetoxyethylsilane 17689-77-9	general population	Inhalation	Long term exposure - local effects		10,8 mg/m <sup>3</sup>	

**Biological Exposure Indices:**

None

**8.2. Exposure controls:****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

**Hand protection:**

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to &gt; 30 minutes permeation time as per EN 374):

nitrile rubber (NBR;  $\geq 0.4$  mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to &gt; 480 minutes permeation time as per EN 374):

nitrile rubber (NBR;  $\geq 0.4$  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:**

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

**Skin protection:**

Wear suitable protective clothing.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Appearance	paste red
Odor	Acetic acid
Odour threshold	No data available / Not applicable
pH	not applicable
Initial boiling point	No data available / Not applicable
Flash point	> 150 °C (> 302 °F)
Decomposition temperature	> 200 °C (> 392 °F)
Vapour pressure	No data available / Not applicable
Density	1,050 g/cm <sup>3</sup>
( )	
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable

Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative) (Solvent: Water)	Insoluble
Solubility (qualitative) (Solvent: Acetone)	Insoluble
Solidification temperature	No data available / Not applicable
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	No data available / Not applicable
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	Not available.
Vapor density	Not available.
Oxidising properties	No data available / Not applicable

## 9.2. Other information

No data available / Not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Strong oxidizing agents.  
Polymerises in presence of water.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

No decomposition if used according to specifications.

### 10.5. Incompatible materials

See section reactivity

### 10.6. Hazardous decomposition products

Acetic acid is liberated slowly upon contact with moisture.  
At higher temperatures (>150C) may release formaldehyde (traces).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

#### Oral toxicity:

This material is considered to have low toxicity if swallowed.

#### Inhalative toxicity:

Acetic acid is liberated slowly upon contact with moisture.  
Inhalation of vapors in high concentration may cause irritation of respiratory system

#### Skin irritation:

Causes skin irritation.

#### Eye irritation:

Causes serious eye damage.  
Acetic acid released during polymerisation of acetoxy curing RTV silicones is irritating to the eyes

**Acute oral toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Triacetoxethylsilane 17689-77-9	LD50	1.460 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
Methyltriacetoxethylsilane 4253-34-3	LD50	1.600 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)

**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.

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

**12.1. Toxicity****Ecotoxicity:**

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

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Triacetoxethylsilane 17689-77-9	LC50	251 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Triacetoxethylsilane 17689-77-9	EC50	62 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Triacetoxethylsilane 17689-77-9	IC50	73 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)

**12.2. Persistence and degradability****Persistence and Biodegradability:**

The product is not biodegradable.

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Triacetoxethylsilane 17689-77-9			74 %	OECD Guideline 301 A (old version) (Ready Biodegradability: Modified AFNOR Test)

**12.3. Bioaccumulative potential / 12.4. Mobility in soil****Mobility:**

Cured adhesives are immobile.

**Bioaccumulative potential:**

No data available.

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Triacetoxethylsilane 17689-77-9	0,74					

**12.5. Results of PBT and vPvB assessment**

<b>Hazardous components CAS-No.</b>	<b>PBT/vPvB</b>
Triacetoxethylsilane 17689-77-9	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

#### 12.6. Other adverse effects

No data available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product disposal:

Dispose of in accordance with local and national regulations.

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.

Disposal must be made according to official regulations.

Waste code

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.



**SECTION 14: Transport information****14.1. UN number**

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

**14.2. UN proper shipping name**

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

**14.3. Transport hazard class(es)**

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

**14.4. Packaging group**

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

**14.5. Environmental hazards**

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

**14.6. Special precautions for user**

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**VOC content < 5 %  
(1999/13/EC)**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

- R14 Reacts violently with water.
- R22 Harmful if swallowed.
- R34 Causes burns.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.

### **Further information:**

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.

**Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.**