

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Trade name : Silirub HT-N

**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.2.1. Relevant identified uses**

Main use category : Professional use, Consumer use  
Use of the substance/mixture : Sealants

**1.2.2. Uses advised against**

No additional information available

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

Soudal N.V.  
Everdongenlaan 18-20  
2300 Turnhout  
Belgium  
T +32 14 42 42 31 - F +32 14 42 65 14  
[sds@soudal.com](mailto:sds@soudal.com) - [www.Soudal.com](http://www.Soudal.com)

**1.4. Emergency telephone number**

Country	Organisation/Company	Address	Emergency number	Comment
Belgium	Centre Anti-Poisons/Antigifcentrum c/o Hôpital Militaire Reine Astrid	Rue Bruyn 1 1120 Bruxelles/Brussels	+32 70 245 245	Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not classified

**Adverse physicochemical, human health and environmental effects**

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

**2.2. Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

EUH-statements : EUH210 - Safety data sheet available on request.

**2.3. Other hazards**

The product does not meet the PBT and vPvB classification criteria  
Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

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The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
quartz (SiO <sub>2</sub> )	CAS-No.: 14808-60-7 EC-No.: 238-878-4	≥ 10 – < 25	STOT RE 1, H372
2-pentanone,O,O',O''-(methylsilyldiyl)trioxime	CAS-No.: 37859-55-5 EC-No.: 484-460-1 REACH-no: 01-2120004323-76	≥ 1 – < 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Irrit. 2, H319
2-pentanone,O,O',O''-(ethenylsilyldiyl)trioxime	CAS-No.: 58190-62-8 EC-No.: 700-81-0 REACH-no: 01-2120006148-66	≥ 1 – < 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319

Full text of H- and EUH-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Rinse mouth out with water. Get medical advice/attention if you feel unwell.

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

No additional information available

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: None known.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

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### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in a dry area. Store at room temperature. Store in a well-ventilated place. Keep container closed when not in use.

Packaging materials : Synthetic material.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

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### 8.1.4. DNEL and PNEC

2-pentanone,O,O',O''-(ethenylsilyldiyl)trioxime (58190-62-8)	
<b>DNEL/DMEL (Workers)</b>	
Long-term - systemic effects, dermal	0,065 mg/kg bw/day
Long-term - systemic effects, inhalation	0,229 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Long-term - systemic effects, oral	0,033 mg/kg bw/day
Long-term - systemic effects, inhalation	0,057 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0,033 mg/kg bw/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,103 mg/l
PNEC aqua (marine water)	0,0103 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	0,586 mg/kg dwt
PNEC sediment (marine water)	0,059 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,04555 mg/kg dwt
<b>PNEC (STP)</b>	
PNEC sewage treatment plant	2,22 mg/l
2-pentanone,O,O',O''-(methylsilyldiyl)trioxime (37859-55-5)	
<b>DNEL/DMEL (Workers)</b>	
Acute - systemic effects, dermal	0,624 mg/kg bodyweight/day
Acute - systemic effects, inhalation	2,205 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0,065 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,229 mg/m <sup>3</sup>
<b>DNEL/DMEL (General population)</b>	
Acute - systemic effects, dermal	0,375 mg/kg bodyweight/day
Acute - systemic effects, inhalation	0,651 mg/m <sup>3</sup>
Acute - systemic effects, oral	0,375 mg/kg bodyweight/day
Long-term - systemic effects, oral	0,033 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,057 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0,033 mg/kg bodyweight/day
<b>PNEC (Water)</b>	
PNEC aqua (freshwater)	0,1 mg/l
PNEC aqua (marine water)	0,01 mg/l
<b>PNEC (Sediment)</b>	
PNEC sediment (freshwater)	0,569 mg/kg dwt
PNEC sediment (marine water)	0,057 mg/kg dwt
<b>PNEC (Soil)</b>	
PNEC soil	0,044 mg/kg dwt

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### 2-pentanone,O,O',O''-(methylsilylidyne)trioxime (37859-55-5)

#### PNEC (STP)

PNEC sewage treatment plant

2,15 mg/l

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

###### Eye protection:

Safety glasses

##### 8.2.2.2. Skin protection

###### Skin and body protection:

Wear suitable protective clothing

###### Hand protection:

Protective gloves

##### 8.2.2.3. Respiratory protection

###### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Variable.
Appearance	: Pasty.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not applicable
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available

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Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 1,16 kg/l
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

VOC content : 0,108 – 0,35 (1.25 g/l - 4.06 g/l)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

#### 2-pentanone,O,O',O''-(ethenylsilylidyne)trioxime (58190-62-8)

LD50 oral rat	1000 mg/kg
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#### 2-pentanone,O,O',O''-(methylsilylidyne)trioxime (37859-55-5)

LD50 oral rat	1234 mg/kg (OECD 425 (Acute Oral Toxicity: Up-and-Down Procedure))
LD50 dermal rat	> 1782 (EU method B.3 (Acute Toxicity Dermal))

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified

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Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified. (Based on available data, the classification criteria are not met)

### quartz (SiO<sub>2</sub>) (14808-60-7)

STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
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### 2-pentanone,O,O',O''-(methylsilyldiyl)trioxime (37859-55-5)

NOAEL (oral, rat, 90 days)	15 mg/kg bodyweight (Animal: rat, Guideline: OECD 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test))
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Aspiration hazard	: Not classified
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## 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified
Not rapidly degradable	

### 2-pentanone,O,O',O''-(ethenylsilyldiyl)trioxime (58190-62-8)

LC50 - Fish [1]	> 100 mg/l (OECD203; Test organisms (species): Oncorhynchus mykiss; 96h)
EC50 - Crustacea [1]	> 100 mg/l (OECD202; Test organisms (species): Daphnia Magna; 48h)
ErC50 algae	88 mg/l (OECD 201; Test organisms (species): Pseudokirchneriella subcapitata; 72h)
NOEC chronic algae	37 mg/l (OECD 201; Test organisms (species): Pseudokirchneriella subcapitata; 72h)

### 2-pentanone,O,O',O''-(methylsilyldiyl)trioxime (37859-55-5)

LC50 - Fish [1]	> 113 mg/l (OECD203; Test organisms (species): Oncorhynchus mykiss; 96h)
EC50 - Crustacea [1]	> 113 mg/l (OECD202; Test organisms (species): Daphnia Magna; 48h)
ErC50 algae	88 mg/l (OECD201; Test organisms (species): Pseudokirchneriella subcapitata; 72h)

### 12.2. Persistence and degradability

### 2-pentanone,O,O',O''-(ethenylsilyldiyl)trioxime (58190-62-8)

Biodegradation	1 % (OECD 301B ( CO2 Evolution Test); 28d)
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### 2-pentanone,O,O',O''-(methylsilyldiyl)trioxime (37859-55-5)

Biodegradation	1 % (OECD 301B ( CO2 Evolution Test); 28d)
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### 12.3. Bioaccumulative potential

### 2-pentanone,O,O',O''-(ethenylsilyldiyl)trioxime (58190-62-8)

Partition coefficient n-octanol/water (Log Pow)	1,25
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### 2-pentanone,O,O',O''-(methylsilyldiylidene)trioxime (37859-55-5)

Partition coefficient n-octanol/water (Log Pow)	1,25
Bioaccumulative potential	Bioaccumulation unlikely.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### Silirub HT-N

The product does not meet the PBT and vPvB classification criteria

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste)	: Non hazardous waste.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Do not discharge into drains or the environment.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09 15 01 02 - plastic packaging

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID /

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not regulated



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### Transport by sea

Not regulated

### Air transport

Not regulated

### Inland waterway transport

Not regulated

### Rail transport

Not regulated

## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

###### EU restriction list (REACH Annex XVII)

Reference code	Applicable on	Entry title or description
3(b)	2-pentanone,O,O',O"- (ethenylsilyldiylne)trioxime ; 2-pentanone,O,O',O"- (methylsilyldiylne)trioxime	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

##### REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

##### REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

##### PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

##### Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

##### VOC Directive (2004/42)

VOC content : 0,108 – 0,35 (1.25 g/l - 4.06 g/l)

##### Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

#### 15.1.2. National regulations

No additional information available

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### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Indication of changes

Section	Changed item	Change	Comments
	according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878		

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

### Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
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### Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
EUH210	Safety data sheet available on request.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1

Safety Data Sheet (SDS), EU-20221

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.