

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

## Silstar

Creation date	28th July 2013	Version	3
Revision date	25th January 2023		

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

#### 1.1. Product identifier

Silstar

Substance / mixture

mixture

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

##### Mixture's intended use

Electronic sealant.

Neutral oxime sealant.

##### The use descriptors

PC 1

Adhesives, sealants

PW

Widespread use by professional workers

##### Mixture uses advised against

Not specified. It is recommended to be used only for specified uses. Other uses may expose users to unforeseeable risks.

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

##### Supplier

Name or trade name

NOVATO

Address

Uralská 770/6, Praha, 160 00

Czech Republic

Identification number (CRN)

62910370

VAT Reg No

CZ62910370

Phone

+420 233 339 688

E-mail

petr.johanides@novato.cz

Web address

www.novato.cz

##### Competent person responsible for the safety data sheet

Name

ABITEC

E-mail

info@abitec.cz

#### 1.4. Emergency telephone number

European emergency number: 112

### SECTION 2: Hazards identification

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

##### Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.

##### Most serious adverse physico-chemical effects

Incomplete thermal decomposition at high temperatures can release dangerous gases. The mixture contains a component which reacts violently in contact with water.

##### Most serious adverse effects on human health and the environment

The mixture contains a caustic component below the concentration limit. In the case of susceptible individuals it may slightly irritate the skin (redness, itching). Avoid ingestion. Secure against confusion with food.

#### 2.2. Label elements

none

#### 2.3. Other hazards

Neither the mixture nor its components meet the criteria for persistent, bioaccumulative and toxic or highly persistent and highly bioaccumulative substances in accordance with Annex XIII, nor have they been included in the list drawn up in accordance with Article 59, paragraph 1, due to the content of endocrine disruptors, nor has it been determined as a substance with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

## Silstar

Creation date	28th July 2013	Version	3
Revision date	25th January 2023		

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixture.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 22984-54-9 EC: 245-366-4	Butan-2-one O,O',O''-(methylsilylidyne) trioxime	<3	Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT RE 2, H373 Specific concentration limit: Skin Sens. 1B, H317: C ≥ 1 % STOT RE 2, H373: C ≥ 10 %	
CAS: 2224-33-1 EC: 218-747-8	Butan-2-one O,O',O''-(vinylsilylidyne) trioxime	<3	Skin Sens. 1B, H317 Eye Dam. 1, H318 STOT RE 2, H373 Specific concentration limit: Skin Sens. 1B, H317: C ≥ 1 % STOT RE 2, H373: C ≥ 10 %	
Index: 603-115-00-X EC: 423-580-0	reaction mass of: O, O',O''-(methylsilanetriyl)tris(4-methyl-2-pentanone oxime) (3 stereoisomers)	<3	STOT RE 2 (**), H373 Aquatic Chronic 4, H413 Specific concentration limit: STOT RE 2, H373: C ≥ 10 %	

#### Notes

\*\* another exposure route cannot be ruled out

Full text of all classifications and hazard statements is given in the section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

If you feel any health problems or if in doubt, seek medical advice and provide information from this Safety Data Sheet. In the case of life-threatening conditions, resuscitate. Keep the unconscious person in a stabilized position and do not give anything by mouth. Avoid cool. Do not induce vomiting. For spontaneous vomiting, avoid inhalation of vomit.

##### If inhaled

There is no risk of inhalation under normal use. If inhalation occurs, leave room, rinse mouth with water, inhale fresh air.

##### If on skin

Wipe the product thoroughly, rinse thoroughly with warm water, soap and treat with a regenerating cream. In case of garment contamination, remove the garment. If symptoms of irritation develop, seek medical help.

##### If in eyes

If it has affected contact lenses, remove them if possible. Open wide eyes rinse out of the inner corner of the eye toward the outside of a large amount of clean, lukewarm water, especially the area under the lids. Rinse for at least 15 minutes and seek medical attention.

##### If swallowed

Do not induce vomiting. Rinse mouth with water. Get medical attention and present this safety data sheet.

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

## Silstar

Creation date	28th July 2013	Version	3
Revision date	25th January 2023		

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

#### If inhaled

not available

#### If on skin

Irritation, itching, redness.

#### If in eyes

Irritation, lacrimation, pain.

#### If swallowed

Ingestion may cause nausea or abdominal pain.

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

In the normal use of the mixture, medical assistance is not required.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Mixture is not flammable, fire extinguisher adapted to fire in the area.

#### Unsuitable extinguishing media

Full stream of water.

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

The mixture contains components which react violently with water. Thermal decomposition at high temperatures or in the event of fire may result in hazardous decomposition products (COx). Do not inhale thermal decomposition products.

### 5.3. Advice for firefighters

Protective equipment adapt the nature of the fire.

## SECTION 6: Accidental release measures

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

Do not allow unauthorized persons to enter. Avoid contact with skin and eyes - use personal protective equipment.

### 6.2. Environmental precautions

Observe the usual environmental precautions. Avoid leakage into sewers, soil, surface and ground water. In case of leakage, inform the competent authorities of the state administration and the flow or sewerage manager.

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

In the case of a small leak, mechanically remove the mixture, wipe the remainder with a cloth, contaminate the mixture and place the cloths in a sealing waste container and discard according to section 13. Always use personal protective equipment for disposal. Wash the contaminated area with water.

### 6.4. Reference to other sections

Recommended personal protective equipment according to section 8. Dispose of unused product according to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Follow the recommendations in the operating instructions. Ensure contact with eyes and skin, use personal protective equipment according to part 8. Ensure adequate ventilation of the work area. Ensure food confusion, avoid ingestion. Protect from open fire and heat sources. Observe the applicable health and safety legislation. Observe the principles of hygiene with chemicals, do not eat, drink, smoke. Wash hands with warm soapy water before breaks, meals, and after work.

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

Store in original packages, in dry and well-ventilated areas. Storage temperature 5 - 40 °C. Protect from fire and direct sunlight. Protect from contact with water and excessive moisture. Keep out of the reach of children. Store away from food, drink and animal feed. Follow the instructions on the label.

Content	Packaging type	Material of package
310 ml	tube	PE

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

## Silstar

Creation date	28th July 2013	Version	3
Revision date	25th January 2023		

Storage class 13 - Other non-combustible solids

**7.3. Specific end use(s)**  
It is not.

### SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

The mixture does not contain any constituents of national exposure limits specified in Annex 2, Government Decree 361/2007 Coll., As amended or European Union for Work Environment.

**8.2. Exposure controls**

Ensure adequate ventilation or extraction of the work area. Avoid contact with skin and eyes. Observe hygiene measures for handling chemicals. Do not eat, drink or smoke while working. Wash hands with lukewarm water and soap before breaks, food and work. Adapt personal protective equipment to the nature of the work.

**Eye/face protection**

Closed safety glasses.

**Skin protection**

Protective work clothing; Take off contaminated clothing and wash before reuse. Protective gloves (eg: Nitrile 0.1 mm, breakthrough time 480 min.) - when selecting, follow the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Test on site for first time use. Replace damaged gloves.

**Respiratory protection**

Not necessary.

**Thermal hazard**

Not Specified. Avoid heating the mixture and exposure to elevated temperatures.

**Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

### SECTION 9: Physical and chemical properties

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

Physical state	solid
Colour	data not available
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	>140 °C
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	insoluble
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	>0.1 at 20 °C
Density and/or relative density	
Density	data not available
Relative density	0.98 - 1.03 g/cm <sup>3</sup> at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available

**9.2. Other information**

Appearance paste  
 Explosive properties The product does not have explosive properties.  
 Explosive properties: The mixture does not show explosive properties.  
 Oxidizing properties: The mixture is not classified as oxidizing.

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## Silstar

Creation date	28th July 2013	Version	3
Revision date	25th January 2023		

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

In normal conditions, the mixture does not show dangerous reactions. The mixture contains a component classified as reacting violently with water.

#### 10.2. Chemical stability

The mixture is stable under normal environmental conditions, storage and handling.

#### 10.3. Possibility of hazardous reactions

The mixture does not exhibit dangerous reactions when the instructions for use are followed. It can react with water and air humidity.

#### 10.4. Conditions to avoid

Contact with temperatures outside recommended working temperature range, frost, contact with water and air humidity.

#### 10.5. Incompatible materials

Strong oxidizing agents, acids.

#### 10.6. Hazardous decomposition products

In normal conditions, the mixture is not decomposed. Thermal decomposition at high temperatures may produce hazardous decomposition products (COx).

### SECTION 11: Toxicological information

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

The mixture is not classified as dangerous in the sense of EC Regulation No. 1272/2008, as amended.

#### Acute toxicity

The mixture is not classified as acutely toxic by any way of exposure.

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met. The mixture contains the caustic component below the specified concentration limit.

#### Serious eye damage/irritation

Based on available data, the classification criteria are not met. The mixture contains the caustic component below the specified concentration limit.

#### Respiratory or skin sensitisation

Based on the available data, the classification criteria are not met. The mixture contains sensitizing components. The tests performed did not show a sensitizing effect. In the case of sensitive people, it can cause an allergic reaction.

#### Germ cell mutagenicity

Based on available data the classification criteria are not met.

#### Carcinogenicity

Based on available data the classification criteria are not met.

#### Reproductive toxicity

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) .

## Silstar

Creation date	28th July 2013	Version	3
Revision date	25th January 2023		

### Aspiration hazard

Based on available data the classification criteria are not met.

### More information

In the case of sensitive individuals may irritate the skin (redness, itching), in the case of direct inhalation into the eyes may irritate the eyes (redness, tearing, burning). Ingestion may cause nausea or abdominal pain.

### 11.2. Information on other hazards

It does not contain substances causing disruption of the endocrine system. In the case of sensitive individuals, it can irritate the skin (redness, itching), if it is rubbed directly into the eyes, it can irritate the eyes (redness, tearing, burning). Ingestion may cause nausea or abdominal pain.

## SECTION 12: Ecological information

### 12.1. Toxicity

The mixture does not contain ingredients classified as dangerous for the environment.

#### More information

The ecotoxic effects of the mixture were not assessed. Do not allow liquid to enter drains or surface water.

### 12.2. Persistence and degradability

Data not available.

### 12.3. Bioaccumulative potential

Not determined, bioaccumulation is unlikely.

### 12.4. Mobility in soil

It's not mobile.

### 12.5. Results of PBT and vPvB assessment

The mixture does not contain substances from the PBT and vPvB groups according to Annex XIII of the REACH Regulation, as amended.

### 12.6. Endocrine disrupting properties

Substances with these properties in accordance with the criteria set out in Commission Regulation (EU) 2017/2100 or (EU) 2018/605 are not included.

### 12.7. Other adverse effects

Avoid leakage into sewers, soil and underground or surface water. Observe the usual environmental precautions.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Proceed in accordance with valid regulations on waste disposal. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### Waste type code

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

#### Packaging waste type code

15 01 10\* packaging containing residues of or contaminated by hazardous substances

(\* ) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

## SECTION 14: Transport information

### 14.1. UN number or ID number

not subject to transport regulations

### 14.2. UN proper shipping name

not relevant

### 14.3. Transport hazard class(es)

not relevant

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## Silstar

Creation date	28th July 2013	Version	3
Revision date	25th January 2023		

#### 14.4. Packing group

not relevant

#### 14.5. Environmental hazards

not relevant

#### 14.6. Special precautions for user

Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

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

not relevant

### SECTION 15: Regulatory information

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

Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Commission Delegated Regulation (EU) 2021/849 of 11 March 2021 amending, for the purposes of adapting to technical and scientific progress, Part 3 of Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as ammended. Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals.

#### 15.2. Chemical safety assessment

No chemical hazard assessment was performed for this mixture.

##### More information

This information only indicates the basic regulations listed in this Safety Data Sheet. Please note the possible existence of additional regulations supplementing these Regulations. We refer to all applicable national, international and local regulations and regulations.

### SECTION 16: Other information

#### A list of standard risk phrases used in the safety data sheet

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.

#### Other important information about human health protection

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the supplier can not control the specific conditions of use of the mixture, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical product information.

#### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union

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## Silstar

Creation date	28th July 2013	Version	3
Revision date	25th January 2023		

EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
log Kow	Octanol-water partition coefficient
NPK	Maximum admissible concentration
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible Exposure Limit
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Eye Dam.	Serious eye damage
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure

### Training guidelines

According to § 103 and § 104 of Act No. 262/2006 Coll., The Labor Code, as amended.

### Recommended restrictions of use

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the specific conditions of use of the substance are beyond the control of the supplier, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical product information.

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.  
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

Adaptation of BL updated Annex II of the REACH Regulation as amended by Commission Regulation (EU) 2020/878.

### Statement

The safety data sheet contains the data needed to ensure safety and health at work and environmental protection. These data correspond to the current state of knowledge and experience and are in accordance with applicable legal regulations. They can not be considered as a guarantee of the suitability and usability of the product for a specific application. The user is responsible for the treatment under existing laws and regulations.