



Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

SILIKON WYSOKOTEMPERATUROWY 350° - HIGH-TEMPERATURE SILICON

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: SILIKON WYSOKOTEMPERATUROWY 350° - HIGH-TEMPERATURE SILICON

Other means of identification:

UFI: MK48-4639-9008-GMUP

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

Relevant uses: A product for sealing engine parts, machines, devices exposed to high temperatures up to 350°C and contact with machine oils and greases, e.g. assembly of gearboxes, engines, drive axles, etc.

Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

BOLL Wojciech Dalewski Spółka Jawna
ul. Chemiczna 3
65-713 Zielona Góra - Polska
Phone: 68 451 99 99 - Fax: 68 451 99 00
huszcza@boll.pl
<https://www.boll.pl>

1.4 Emergency telephone number:

SECTION 2: HAZARDS IDENTIFICATION **

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Eye Irrit. 2: Eye irritation, Category 2, H319

Skin Sens. 1B: Sensitisation, skin, Category 1B, H317

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Warning



Hazard statements:

Eye Irrit. 2: H319 - Causes serious eye irritation.

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.

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.

P501: Dispose of contents/container according to the separated collection system used in your municipality.

Supplementary information:

Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine.

Substances that contribute to the classification

Butan-2-on-O,O',O''-(metylosilylidyno)trioksym; Butan-2-one O,O',O''-(vinylosilylidyno)trioxime

UFI: MK48-4639-9008-GMUP

2.3 Other hazards:

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

** Changes with regards to the previous version

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SILIKON WYSOKOTEMPERATUROWY 350° - HIGH-TEMPERATURE SILICON**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS ******3.1 Substance:**

Non-applicable

3.2 Mixture:**Chemical description:** Polydimethylsiloxane + filler + auxiliaries + crosslinker**Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification | Chemical name/Classification | Concentration |
|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------|
| CAS: 7631-86-9 EC: 231-545-4 Index: Non-applicable REACH: 01-2119379499-16-XXXX | Silicon dioxide (RCS < 1%)⁽¹⁾ Not classified | 7 - <10 % |
| | Regulation 1272/2008 | |
| CAS: 22984-54-9 EC: 245-366-4 Index: Non-applicable REACH: 01-2119970560-38-XXXX | Butan-2-on-O,O', O''-(metylosilyldyno)trioksym⁽²⁾ Auto-classified | 3 - <5 % |
| | Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning | |
| CAS: 2224-33-1 EC: 218-747-8 Index: Non-applicable REACH: 01-2119970537-27-XXXX | Butan-2-one O,O',O''-(vinylosilyldyne)trioxime⁽²⁾ Self-classified | 0,9 - <2 % |
| | Regulation 1272/2008 Eye Dam. 1: H318; Skin Sens. 1B: H317; STOT RE 2: H373 - Danger | |
| CAS: 1760-24-3 EC: 217-164-6 Index: Non-applicable REACH: 01-2119970215-39-XXXX | N-(3-(trimethoxysilyl)propyl)ethylenediamine⁽²⁾ Self-classified | 0,5 - <0,9 % |
| | Regulation 1272/2008 Acute Tox. 4: H332; Eye Dam. 1: H318; Skin Sens. 1: H317; STOT RE 2: H373 - Danger | |

⁽¹⁾ Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2020/878⁽²⁾ Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

| Identification | Acute toxicity | | Genus |
|------------------------------------------------|-----------------|--------------|-------|
| Butan-2-on-O,O', O''-(metylosilyldyno)trioksym | LD50 oral | 2247 mg/kg | Rat |
| CAS: 22984-54-9 | LD50 dermal | Not relevant | |
| EC: 245-366-4 | LC50 inhalation | Not relevant | |

**** Changes with regards to the previous version****SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

May cause an allergic skin reaction. In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

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**SILIKON WYSOKOTEMPERATUROWY 350° - HIGH-TEMPERATURE SILICON****SECTION 4: FIRST AID MEASURES (continued)**

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of any immediate medical attention and special treatment needed:

Not available

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media:****Suitable extinguishing media:**

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

Non-applicable

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures:****For non-emergency personnel:**

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilled product (See section 8). Evacuate the area and keep out those who do not have protection.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling:**

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SECTION 7: HANDLING AND STORAGE (continued)

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, handling and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

- Minimum Temp.: 10 °C
- Maximum Temp.: 20 °C
- Maximum time: 18 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

DNEL (Workers):

| Identification | | Short exposure | | Long exposure | |
|--------------------------------------------------------------------------------|------------|----------------|--------------|------------------------|--------------|
| | | Systemic | Local | Systemic | Local |
| Butan-2-one O,O',O''-(vinylsilyldi)trioxime CAS: 2224-33-1 EC: 218-747-8 | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| | Dermal | Not relevant | Not relevant | 0,15 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 1,06 mg/m ³ | Not relevant |

DNEL (General population):

| Identification | | Short exposure | | Long exposure | |
|--------------------------------------------------------------------------------|------------|----------------|--------------|------------------------|--------------|
| | | Systemic | Local | Systemic | Local |
| Butan-2-one O,O',O''-(vinylsilyldi)trioxime CAS: 2224-33-1 EC: 218-747-8 | Oral | Not relevant | Not relevant | 0,075 mg/kg | Not relevant |
| | Dermal | Not relevant | Not relevant | 0,075 mg/kg | Not relevant |
| | Inhalation | Not relevant | Not relevant | 0,26 mg/m ³ | Not relevant |

PNEC:

| Identification | | Short exposure | | Long exposure | |
|--------------------------------------------------------------------------------|--------------|----------------|-------------------------|----------------|-------|
| | | Systemic | Local | Systemic | Local |
| Butan-2-one O,O',O''-(vinylsilyldi)trioxime CAS: 2224-33-1 EC: 218-747-8 | STP | 4,06 mg/L | Fresh water | 0,019 mg/L | |
| | Soil | 133,8 mg/kg | Marine water | 0,002 mg/L | |
| | Intermittent | Not relevant | Sediment (Fresh water) | 1136,562 mg/kg | |
| | Oral | 0,003333 g/kg | Sediment (Marine water) | 113,656 mg/kg | |

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SILIKON WYSOKOTEMPERATUROWY 350° - HIGH-TEMPERATURE SILICON

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)



| Identification | | | | |
|---------------------------------------------------------------------------------|--------------|--------------|-------------------------|-------------|
| N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS: 1760-24-3 EC: 217-164-6 | STP | 25 mg/L | Fresh water | 0,062 mg/L |
| | Soil | 0,009 mg/kg | Marine water | 0,006 mg/L |
| | Intermittent | 0,62 mg/L | Sediment (Fresh water) | 0,22 mg/kg |
| | Oral | Not relevant | Sediment (Marine water) | 0,022 mg/kg |

8.2 Exposure controls:



A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection



| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Mandatory respiratory tract protection | Filter mask for gases and vapours |  | EN 405:2002+A1:2010 | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

C.- Specific protection for the hands



| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Mandatory hand protection | Protective gloves against minor risks |  | | Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN ISO 21420:2020 and EN ISO 374-1:2016+A1:2018 |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.



D.- Eye and face protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|
|  Mandatory face protection | Panoramic glasses against splash/projections. |  | EN 166:2002 EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

E.- Body protection

| Pictogram | PPE | Labelling | CEN Standard | Remarks |
|-----------|----------------------|-------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Work clothing |  | | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994. |
| | Anti-slip work shoes |  | EN ISO 20347:2012 | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007 |

F.- Additional emergency measures

| Emergency measure | Standards | Emergency measure | Standards |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------|
|  Emergency shower | ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011 |  Eyewash stations | DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 |

Environmental exposure controls:

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

| | |
|--------------------------|------------------------------------------|
| Physical state at 20 °C: | Liquid |
| Appearance: | Paste |
| Colour: | According to the markings on the package |
| Odour: | Soft |
| Odour threshold: | Not available * |

Volatility:

| | |
|----------------------------------------|--------------------|
| Boiling point at atmospheric pressure: | Not available * |
| Vapour pressure at 20 °C: | Not available * |
| Vapour pressure at 50 °C: | 6,65 Pa (0,01 kPa) |
| Evaporation rate at 20 °C: | Not available * |

Product description:

| | |
|----------------------------------------------|-------------------------------|
| Density at 20 °C: | 1100 - 1140 kg/m ³ |
| Relative density at 20 °C: | 1,1 - 1,14 |
| Dynamic viscosity at 20 °C: | Not available * |
| Kinematic viscosity at 20 °C: | Not available * |
| Kinematic viscosity at 40 °C: | >20,5 mm ² /s |
| Concentration: | Not available * |
| pH: | Not available * |
| Vapour density at 20 °C: | Not available * |
| Partition coefficient n-octanol/water 20 °C: | Not available * |
| Solubility in water at 20 °C: | Not available * |
| Solubility properties: | Insoluble in water |
| Decomposition temperature: | Not available * |
| Melting point/freezing point: | Not available * |

Flammability:

| | |
|----------------------------|------------------------|
| Flash Point: | Non Flammable (>60 °C) |
| Flammability (solid, gas): | Not available * |
| Autoignition temperature: | Not available * |
| Lower flammability limit: | Not available * |
| Upper flammability limit: | Not available * |

Particle characteristics:

| | |
|-----------------------------|----------------|
| Median equivalent diameter: | Non-applicable |
|-----------------------------|----------------|

9.2 Other information:

Information with regard to physical hazard classes:

| | |
|-----------------------|-----------------|
| Explosive properties: | Not available * |
| Oxidising properties: | Not available * |
| Corrosive to metals: | Not available * |

*Not available due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

| | |
|--------------------------------------------------------------|-----------------|
| Heat of combustion: | Not available * |
| Aerosols-total percentage (by mass) of flammable components: | Not available * |
| Other safety characteristics: | |
| Surface tension at 20 °C: | Not available * |
| Refraction index: | Not available * |

*Not available due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|--------------------|------------------|-------------------------|----------------|----------------|
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |

10.5 Incompatible materials:

| Acids | Water | Oxidising materials | Combustible materials | Others |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Not applicable | Not applicable | Avoid alkalis or strong bases |

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION **

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

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Produces eye damage after contact.

** Changes with regards to the previous version

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SILIKON WYSOKOTEMPERATUROWY 350° - HIGH-TEMPERATURE SILICON**SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)****D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):**

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.

IARC: Not relevant

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.

- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not relevant

Specific toxicology information on the substances:

| Identification | Acute toxicity | | Genus |
|------------------------------------------------------------------------------------|-----------------|----------------|--------|
| | LD50 oral | LD50 dermal | |
| Butan-2-one O,O',O''-(vinylsilyldyne)trioxime CAS: 2224-33-1 EC: 218-747-8 | LD50 oral | 3519 mg/kg | Rat |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation | >20 mg/L | |
| Butan-2-on-O,O', O''-(metylosilyldyno)trioksym CAS: 22984-54-9 EC: 245-366-4 | LD50 oral | 2247 mg/kg | Rat |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation | >20 mg/L (4 h) | |
| Silicon dioxide (RCS < 1%) CAS: 7631-86-9 EC: 231-545-4 | LD50 oral | >5000 mg/kg | Rat |
| | LD50 dermal | 5100 mg/kg | Rabbit |
| | LC50 inhalation | >5 mg/L | |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS: 1760-24-3 EC: 217-164-6 | LD50 oral | 2295 mg/kg | Rat |
| | LD50 dermal | >2000 mg/kg | |
| | LC50 inhalation | >20 mg/L | |

11.2 Information on other hazards:**Endocrine disrupting properties**

Endocrine-disrupting properties: The product does not meet the criteria.

Other information

Not relevant

** Changes with regards to the previous version

SECTION 12: ECOLOGICAL INFORMATION **

The experimental information related to the eco-toxicological properties of the product itself is not available

** Changes with regards to the previous version

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Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

12.1 Toxicity:**Acute toxicity:**

| Identification | Concentration | | Species | Genus |
|---------------------------------------------------------------------------------|---------------|-------------------|---------------------------|------------|
| Silicon dioxide (RCS < 1%) CAS: 7631-86-9 EC: 231-545-4 | LC50 | 5000 mg/L (96 h) | Brachydanio rerio | Fish |
| | EC50 | 10000 mg/L (24 h) | Daphnia magna | Crustacean |
| | EC50 | 440 mg/L (72 h) | Selenastrum capricornutum | Algae |
| Butan-2-one O,O',O''-(vinylsilyldi)trioxime CAS: 2224-33-1 EC: 218-747-8 | LC50 | 55000 mg/L (96 h) | QSAR | Fish |
| | EC50 | 17168 mg/L (48 h) | QSAR | Fish |
| | EC50 | 1429 mg/L (96 h) | QSAR | Fish |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS: 1760-24-3 EC: 217-164-6 | LC50 | 597 mg/L (96 h) | Brachydanio rerio | Fish |
| | EC50 | 81 mg/L (48 h) | Daphnia magna | Crustacean |
| | EC50 | 8,8 mg/L (72 h) | Selenastrum capricornutum | Algae |

Chronic toxicity:

| Identification | Concentration | | Species | Genus |
|-----------------------------------------------------------------------------|---------------|----------|-----------------|------------|
| Butan-2-one O,O',O''-(vinylsilyldi)trioxime CAS: 2224-33-1 EC: 218-747-8 | NOEC | 50 mg/L | Oryzias latipes | Fish |
| | NOEC | 100 mg/L | Daphnia magna | Crustacean |

12.2 Persistence and degradability:**Substance-specific information:**

| Identification | Degradability | | Biodegradability | |
|---------------------------------------------------------------------------------|---------------|--------------|------------------|--------------|
| | | | | |
| Butan-2-one O,O',O''-(vinylsilyldi)trioxime CAS: 2224-33-1 EC: 218-747-8 | BOD5 | Not relevant | Concentration | 20 mg/L |
| | COD | Not relevant | Period | 28 days |
| | BOD5/COD | Not relevant | % Biodegradable | 0 % |
| N-(3-(trimethoxysilyl)propyl)ethylenediamine CAS: 1760-24-3 EC: 217-164-6 | BOD5 | Not relevant | Concentration | Not relevant |
| | COD | Not relevant | Period | 28 days |
| | BOD5/COD | Not relevant | % Biodegradable | 39 % |

12.3 Bioaccumulative potential:**Substance-specific information:**

| Identification | Bioaccumulation potential | |
|--------------------------------------------------------------------------------|---------------------------|-----|
| | | |
| Butan-2-one O,O',O''-(vinylsilyldi)trioxime CAS: 2224-33-1 EC: 218-747-8 | BCF | 1 |
| | Pow Log | 0.6 |
| | Potential | Low |

12.4 Mobility in soil:

Not available

Insoluble in water

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

12.7 Other adverse effects:

Not described

**** Changes with regards to the previous version****SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods:**

| Code | Description | Waste class (Regulation (EU) No 1357/2014) |
|----------|---------------------------------------------------------------------|--------------------------------------------|
| 08 04 10 | waste adhesives and sealants other than those mentioned in 08 04 09 | Non-hazardous |

- CONTINUED ON NEXT PAGE -

**SILIKON WYSOKOTEMPERATUROWY 350° - HIGH-TEMPERATURE SILICON****SECTION 13: DISPOSAL CONSIDERATIONS (continued)****Type of waste (Regulation (EU) No 1357/2014):**

Not relevant

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION**Transport of dangerous goods by land:**

With regard to ADR 2023 and RID 2023:

- | | |
|----------------------------------------------------------------------|---------------|
| 14.1 UN number or ID number: | Not relevant |
| 14.2 UN proper shipping name: | Not relevant |
| 14.3 Transport hazard class(es): | Not relevant |
| Labels: | Not relevant |
| 14.4 Packing group: | Not relevant |
| 14.5 Environmental hazards: | No |
| 14.6 Special precautions for user | |
| Special regulations: | Not relevant |
| Tunnel restriction code: | Not relevant |
| Physico-Chemical properties: | see section 9 |
| Limited quantities: | Not relevant |
| 14.7 Maritime transport in bulk according to IMO instruments: | Not relevant |

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

- | | |
|----------------------------------------------------------------------|---------------|
| 14.1 UN number or ID number: | Not relevant |
| 14.2 UN proper shipping name: | Not relevant |
| 14.3 Transport hazard class(es): | Not relevant |
| Labels: | Not relevant |
| 14.4 Packing group: | Not relevant |
| 14.5 Marine pollutant: | No |
| 14.6 Special precautions for user | |
| Special regulations: | Not relevant |
| EmS Codes: | |
| Physico-Chemical properties: | see section 9 |
| Limited quantities: | Not relevant |
| Segregation group: | Not relevant |
| 14.7 Maritime transport in bulk according to IMO instruments: | Not relevant |

Transport of dangerous goods by air:

With regard to IATA/ICAO 2024:

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Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

SILIKON WYSOKOTEMPERATUROWY 350° - HIGH-TEMPERATURE SILICON

SECTION 14: TRANSPORT INFORMATION (continued)

| | |
|----------------------------------------------------------------------|---------------|
| 14.1 UN number or ID number: | Not relevant |
| 14.2 UN proper shipping name: | Not relevant |
| 14.3 Transport hazard class(es): | Not relevant |
| Labels: | Not relevant |
| 14.4 Packing group: | Not relevant |
| 14.5 Environmental hazards: | No |
| 14.6 Special precautions for user | |
| Physico-Chemical properties: | see section 9 |
| 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:

- Article 95, REGULATION (EU) No 528/2012: *Silicon dioxide (RCS < 1%) (7631-86-9) - PT: (18)*
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

Not relevant

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc):

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Laboral exposure to respirable crystalline silica must be controlled in accordance with Directive (EU) 2022/431, of the European Parliament and of the Council, of March 9, 2022, amending Directive 2004/37/EC, relating to the protection of workers against risks related to exposure to carcinogens or mutagens during work.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

** Changes with regards to the previous version

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

- CONTINUED ON NEXT PAGE -

**SILIKON WYSOKOTEMPERATUROWY 350° - HIGH-TEMPERATURE SILICON****SECTION 16: OTHER INFORMATION (continued)****COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):**

- New declared substances
Silicon dioxide (RCS < 1%) (7631-86-9)
- Removed substances
C.I.Pigment Black 26 (68186-94-7)

Substances that contribute to the classification (SECTION 2):

- New declared substances
Butan-2-on-O,O', O''-(metylosilylidyno)trioksym (22984-54-9)

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Substances contained in EUH208:
 - Removed substances
Butan-2-on-O,O', O''-(metylosilylidyno)trioksym (22984-54-9)

REGULATORY INFORMATION (SECTION 15):

- Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ...)

Texts of the legislative phrases mentioned in section 2:

H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H332 - Harmful if inhaled.
Eye Dam. 1: H318 - Causes serious eye damage.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Inhalation).
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).

Classification procedure:

Eye Irrit. 2: Calculation method
Skin Sens. 1B: Calculation method

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

<http://echa.europa.eu>
<http://eur-lex.europa.eu>

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -