

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## SUPER RTV SILICONE GREY - 200 ML

Version 5.4      Revision Date: 06.05.2020      SDS Number: 653907-00004      Date of last issue: 02.08.2019  
Date of first issue: 11.06.2010

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

#### 1.1 Product identifier

Trade name : SUPER RTV SILICONE GREY - 200 ML  
Product code : 08933216

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

Use of the Sub-stance/Mixture : Sealant  
Professional use product

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

Company : Adolf Wuerth GmbH & Co. KG  
Reinhold-Würth-Str. 12-17  
74653 Künzelsau  
  
Telephone : +49 794015 0  
Telefax : +49 794015 10 00  
  
E-mail address of person responsible for the SDS : prodsafe@wuerth.com

#### 1.4 Emergency telephone number

+49 (0)6132 – 84463

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

|  |   |
|--|---|
| Aerosols, Category 1   | H222: Extremely flammable aerosol.<br>H229: Pressurised container: May burst if heated. |
| Skin irritation, Category 2                                    | H315: Causes skin irritation.   |
| Serious eye damage, Category 1                                 | H318: Causes serious eye damage.  |
| Skin sensitisation, Category 1                                 | H317: May cause an allergic skin reaction.  |
| Carcinogenicity, Category 2                                    | H351: Suspected of causing cancer.  |
| Specific target organ toxicity - repeated exposure, Category 1 | H372: Causes damage to organs through prolonged or repeated exposure.                   |

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms :

Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H351 Suspected of causing cancer.  
H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P260 Do not breathe spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
**Storage:**  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

### Hazardous components which must be listed on the label:

Butan-2-one O,O',O''-(vinylsilyldi)trioxime  
Ethyl methyl ketoxime  
3-Aminopropyltriethoxysilane

### 2.3 Other hazards

May displace oxygen and cause rapid suffocation.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name | CAS-No.<br>EC-No.<br>Index-No. | Classification | Concentration<br>(% w/w) |
|---------------|--------------------------------|----------------|--------------------------|
|               |                                |                |                          |

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|  | Registration number                                       |   |             |
|--|---|---|-------------|
| Butan-2-one O,O',O''-(vinylysilyldiyl)trioxime | 2224-33-1<br>218-747-8                                    | Eye Dam. 1; H318<br>Skin Sens. 1B; H317<br>Carc. 2; H351<br>STOT SE 3; H336<br>STOT RE 1; H372                      | >= 3 - < 10 |
| Ethyl methyl ketoxime                          | 96-29-7<br>202-496-6<br>616-014-00-0                      | Acute Tox. 4; H312<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317<br>Carc. 2; H351<br>STOT SE 3; H336<br>STOT RE 1; H372 | >= 1 - < 3  |
| 3-Aminopropyltriethoxysilane                   | 919-30-2<br>213-048-4<br>612-108-00-0<br>01-2119480479-24 | Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317                                 | >= 1 - < 3  |

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Get medical attention immediately.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention.  
Rinse mouth thoroughly with water.

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

- Risks : Causes skin irritation.

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May cause an allergic skin reaction.  
Causes serious eye damage.  
Suspected of causing cancer.  
Causes damage to organs through prolonged or repeated exposure.

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

Treatment : Treat symptomatically and supportively.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : None known.

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

Specific hazards during fire-fighting : Flash back possible over considerable distance.  
Vapours may form explosive mixtures with air.  
Exposure to combustion products may be a hazard to health.  
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

Hazardous combustion products : Carbon oxides  
Metal oxides  
Silicon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Formaldehyde

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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## SECTION 6: Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas.

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Remove all sources of ignition.  
Ventilate the area.  
Use personal protective equipment.  
Follow safe handling advice and personal protective equipment recommendations.

### 6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.  
Prevent further leakage or spillage if safe to do so.  
Prevent spreading over a wide area (e.g. by containment or oil barriers).  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

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

Methods for cleaning up : Non-sparking tools should be used.  
Soak up with inert absorbent material.  
Suppress (knock down) gases/vapours/mists with a water spray jet.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.  
If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.

Advice on safe handling : Do not get on skin or clothing.  
Avoid inhalation of vapour or mist.  
Do not swallow.  
Do not get in eyes.  
Handle in accordance with good industrial hygiene and safety

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practice, based on the results of the workplace exposure assessment  
Keep container tightly closed.  
Keep away from water.  
Protect from moisture.  
Keep away from heat and sources of ignition.  
Take precautionary measures against static discharges.  
Take care to prevent spills, waste and minimize release to the environment.

Do not spray on an open flame or other ignition source.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

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

Requirements for storage areas and containers : Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Do not pierce or burn, even after use. Keep cool. Protect from sunlight.

Advice on common storage : Do not store with the following product types:  
Self-reactive substances and mixtures  
Organic peroxides  
Oxidizing agents  
Flammable solids  
Pyrophoric liquids  
Pyrophoric solids  
Self-heating substances and mixtures  
Substances and mixtures, which in contact with water, emit flammable gases  
Explosives  
Gases

Storage class (TRGS 510) : 2B, Aerosol cans and lighters

Recommended storage temperature : 5 - 30 °C

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|------------|---------|-------------------------------|--------------------|-------|
|------------|---------|-------------------------------|--------------------|-------|

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|--|---------|-----|--------------------------------------|----------------|
| Propane  | 74-98-6 | AGW | 1.000 ppm<br>1.800 mg/m <sup>3</sup> | DE TRGS<br>900 |
| Peak-limit: excursion factor (category): 4;(II)  |         |     |                                      |                |
| Further information: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).  |         |     |                                      |                |
| Ethyl methyl ketoxime  | 96-29-7 | AGW | 0,3 ppm<br>1 mg/m <sup>3</sup>       | DE TRGS<br>900 |
| Peak-limit: excursion factor (category): 8; (I)  |         |     |                                      |                |
| Further information: Commission for dangerous substances, Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child, Substance sensitizing through the skin |         |     |                                      |                |

### Occupational exposure limits of decomposition products

| Components   | CAS-No. | Value type (Form of exposure) | Control parameters               | Basis          |
|--|---------|-------------------------------|----------------------------------|----------------|
| Ethyl methyl ketoxime  | 96-29-7 | AGW                           | 0,3 ppm<br>1 mg/m <sup>3</sup>   | DE TRGS<br>900 |
| Peak-limit: excursion factor (category): 8; (I)  |         |                               |                                  |                |
| Further information: Commission for dangerous substances, Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child, Substance sensitizing through the skin               |         |                               |                                  |                |
| Ethanol  | 64-17-5 | AGW                           | 200 ppm<br>380 mg/m <sup>3</sup> | DE TRGS<br>900 |
| Peak-limit: excursion factor (category): 4;(II)  |         |                               |                                  |                |
| Further information: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |         |                               |                                  |                |

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name                                 | End Use   | Exposure routes | Potential health effects   | Value                   |
|--|-----------|-----------------|----------------------------|-------------------------|
| Calcium carbonate                              | Workers   | Inhalation      | Long-term systemic effects | 6,36 mg/m <sup>3</sup>  |
|  | Consumers | Ingestion       | Acute systemic effects     | 6,1 mg/kg bw/day        |
|  | Consumers | Inhalation      | Long-term systemic effects | 1,06 mg/m <sup>3</sup>  |
| Butan-2-one O,O',O''-(vinylysilyldyne)trioxime | Workers   | Inhalation      | Long-term systemic effects | 1,03 mg/m <sup>3</sup>  |
|  | Workers   | Skin contact    | Long-term systemic effects | 0,146 mg/kg bw/day      |
|  | Consumers | Inhalation      | Long-term systemic effects | 0,181 mg/m <sup>3</sup> |
| Ethyl methyl ketoxime                          | Consumers | Skin contact    | Long-term systemic effects | 0,052 mg/kg bw/day      |
|  | Consumers | Ingestion       | Long-term systemic effects | 0,052 mg/kg bw/day      |
| Ethyl methyl ketoxime                          | Workers   | Inhalation      | Long-term systemic         | 9 mg/m <sup>3</sup>     |

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|                              |           |              | effects                    |                        |
|------------------------------|-----------|--------------|----------------------------|------------------------|
|                              | Workers   | Inhalation   | Long-term local effects    | 3,33 mg/m <sup>3</sup> |
|                              | Workers   | Skin contact | Long-term systemic effects | 1,3 mg/kg bw/day       |
|                              | Workers   | Skin contact | Acute systemic effects     | 2,5 mg/kg bw/day       |
|                              | Consumers | Inhalation   | Long-term systemic effects | 2,7 mg/m <sup>3</sup>  |
|                              | Consumers | Inhalation   | Long-term local effects    | 2 mg/m <sup>3</sup>    |
|                              | Consumers | Skin contact | Long-term systemic effects | 0,78 mg/kg bw/day      |
|                              | Consumers | Skin contact | Acute systemic effects     | 1,5 mg/kg bw/day       |
| 3-Aminopropyltriethoxysilane | Workers   | Inhalation   | Long-term systemic effects | 59 mg/m <sup>3</sup>   |
|                              | Workers   | Inhalation   | Acute systemic effects     | 59 mg/m <sup>3</sup>   |
|                              | Workers   | Skin contact | Long-term systemic effects | 8,3 mg/kg bw/day       |
|                              | Workers   | Skin contact | Acute systemic effects     | 8,3 mg/kg bw/day       |
|                              | Consumers | Inhalation   | Long-term systemic effects | 17,4 mg/m <sup>3</sup> |
|                              | Consumers | Inhalation   | Acute systemic effects     | 17,4 mg/m <sup>3</sup> |
|                              | Consumers | Skin contact | Long-term systemic effects | 5 mg/kg bw/day         |
|                              | Consumers | Skin contact | Acute systemic effects     | 5 mg/kg bw/day         |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name                                | Environmental Compartment | Value       |
|---|---------------------------|-------------|
| Calcium carbonate                             | Sewage treatment plant    | 100 mg/l    |
| Butan-2-one O,O',O''-(vinylsilyldyne)trioxime | Fresh water               | 0,26 mg/l   |
|   | Marine water              | 0,026 mg/l  |
|   | Intermittent use/release  | 0,12 mg/l   |
|   | Sewage treatment plant    | 10 mg/l     |
|   | Fresh water sediment      | 1,02 mg/kg  |
|   | Marine sediment           | 0,102 mg/kg |
|   | Soil                      | 0,05 mg/kg  |
| Ethyl methyl ketoxime                         | Fresh water               | 0,256 mg/l  |
|   | Intermittent use/release  | 0,118 mg/l  |
|   | Sewage treatment plant    | 177 mg/l    |
| 3-Aminopropyltriethoxysilane                  | Fresh water               | 0,33 mg/l   |
|   | Marine water              | 0,033 mg/l  |
|   | Intermittent use/release  | 3,3 mg/l    |
|   | Sewage treatment plant    | 13 mg/l     |
|   | Fresh water sediment      | 1,2 mg/kg   |
|   | Soil                      | 0,05 mg/kg  |



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|  |                 |            |
|--|-----------------|------------|
|  | Marine sediment | 0,12 mg/kg |
|--|-----------------|------------|

### 8.2 Exposure controls

#### Engineering measures

Processing may form hazardous compounds (see section 10).

Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.

#### Personal protective equipment

Eye protection : Wear the following personal protective equipment:  
Chemical resistant goggles must be worn.  
If splashes are likely to occur, wear:  
Face-shield  
Equipment should conform to DIN EN 166

#### Hand protection

Material : Nitrile rubber  
Break through time : 480 min  
Glove thickness : 0,35 - 0,45 mm  
Directive : Equipment should conform to DIN EN 374

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Wear the following personal protective equipment:  
If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic protective clothing.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.  
Equipment should conform to DIN EN 137

Filter type : Self-contained breathing apparatus

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : aerosol

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Propellant : Propane, Butane

Colour : grey

Odour : characteristic

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : Extremely flammable aerosol.

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Density : 1,28 g/cm<sup>3</sup> (20 °C)

Solubility(ies)  
Water solubility : hydrolyses

Partition coefficient: n-octanol/water : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity  
Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

### 9.2 Other information

Particle size : Not applicable

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Extremely flammable aerosol.  
Vapours may form explosive mixture with air.  
Use at elevated temperatures may form highly hazardous compounds.  
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.  
Can react with strong oxidizing agents.  
Methyl Ethyl Ketoxime (MEKO) is formed upon contact with water or humid air.  
Hazardous decomposition products will be formed upon contact with water or humid air.

#### 10.4 Conditions to avoid

Conditions to avoid : Exposure to moisture  
Heat, flames and sparks.

#### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents  
Water

#### 10.6 Hazardous decomposition products

Contact with water or humid air : Ethyl methyl ketoxime  
Ethanol

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

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Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

### Components:

#### **Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:**

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat): > 4,83 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2.009 mg/kg  
Method: OECD Test Guideline 402

#### **Ethyl methyl ketoxime:**

Acute oral toxicity : LD50 (Rat): 2.326 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 4,83 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 1.000 - 1.800 mg/kg

#### **3-Aminopropyltriethoxysilane:**

Acute oral toxicity : LD50 (Rat): 1.490 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 0,145 mg/l  
Exposure time: 6 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 4.076 mg/kg

### **Skin corrosion/irritation**

Causes skin irritation.

### Components:

#### **Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

#### **Ethyl methyl ketoxime:**

Species : Rabbit

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Result : No skin irritation

### **3-Aminopropyltriethoxysilane:**

Species : Rabbit  
Result : Corrosive after 3 minutes to 1 hour of exposure

### **Serious eye damage/eye irritation**

Causes serious eye damage.

### **Components:**

#### **Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irreversible effects on the eye

#### **Ethyl methyl ketoxime:**

Species : Rabbit  
Result : Irreversible effects on the eye

#### **3-Aminopropyltriethoxysilane:**

Species : Rabbit  
Result : Irreversible effects on the eye

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

### **Components:**

#### **Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:**

Test Type : Maximisation Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Result : positive  
Remarks : Based on data from similar materials

Assessment : Probability or evidence of low to moderate skin sensitisation rate in humans

#### **Ethyl methyl ketoxime:**

Test Type : Buehler Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Result : positive

Assessment : Probability or evidence of skin sensitisation in humans

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### **3-Aminopropyltriethoxysilane:**

Test Type : Buehler Test  
Exposure routes : Skin contact  
Species : Guinea pig  
Result : positive

Assessment : Probability or evidence of skin sensitisation in humans

### **Germ cell mutagenicity**

Not classified based on available information.

### **Components:**

#### **Butan-2-one O,O',O''-(vinylsilyldiene)trioxime:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: positive

Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative

#### **Ethyl methyl ketoxime:**

Genotoxicity in vitro : Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)  
Method: OECD Test Guideline 482  
Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: Ingestion  
Result: negative

#### **3-Aminopropyltriethoxysilane:**

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Bacterial reverse mutation assay (AMES)

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Method: OECD Test Guideline 471  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

### **Carcinogenicity**

Suspected of causing cancer.

#### **Components:**

##### **Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:**

Species : Rat  
Application Route : inhalation (vapour)  
Exposure time : 26 Months  
Result : positive  
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

##### **Ethyl methyl ketoxime:**

Species : Rat  
Application Route : inhalation (vapour)  
Exposure time : 26 Months  
Result : positive

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

##### **3-Aminopropyltriethoxysilane:**

Species : Mouse  
Application Route : Skin contact  
Exposure time : 24 month(s)  
Result : negative

### **Reproductive toxicity**

Not classified based on available information.

#### **Components:**

##### **Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:**

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative  
Remarks: Based on data from similar materials

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Effects on foetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative  
Remarks: Based on data from similar materials

### **Ethyl methyl ketoxime:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative

### **3-Aminopropyltriethoxysilane:**

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative

### **STOT - single exposure**

Not classified based on available information.

### **Components:**

#### **Butan-2-one O,O',O''-(vinylsilylidyne)trioxime:**

Assessment : May cause drowsiness or dizziness.  
Remarks : Based on data from similar materials

#### **Ethyl methyl ketoxime:**

Assessment : May cause drowsiness or dizziness.

### **STOT - repeated exposure**

Causes damage to organs through prolonged or repeated exposure.



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### Components:

#### **Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:**

Exposure routes : Ingestion  
Target Organs : Blood  
Assessment : Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.  
Remarks : Based on data from similar materials

Exposure routes : inhalation (vapour)  
Target Organs : Blood  
Assessment : Shown to produce significant health effects in animals at concentrations of 0.2 mg/l/6h/d or less.  
Remarks : Based on data from similar materials

#### **Ethyl methyl ketoxime:**

Exposure routes : Ingestion  
Target Organs : Blood  
Assessment : Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.

Exposure routes : inhalation (vapour)  
Target Organs : Blood  
Assessment : Shown to produce significant health effects in animals at concentrations of 0.2 mg/l/6h/d or less.

### **Repeated dose toxicity**

### Components:

#### **Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:**

Species : Rat  
LOAEL : 0,36 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 28 Days  
Remarks : Based on data from similar materials

Species : Rat  
NOAEL : 4 mg/l  
LOAEL : 20 mg/kg  
Application Route : Ingestion  
Exposure time : 28 Days  
Remarks : Based on data from similar materials

#### **Ethyl methyl ketoxime:**

Species : Rat  
NOAEL : 0,09 mg/l  
Application Route : inhalation (vapour)  
Exposure time : 28 Days

Species : Rat  
NOAEL : 4 mg/kg

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LOAEL : 20 mg/kg  
Application Route : Ingestion  
Exposure time : 28 Days

### 3-Aminopropyltriethoxysilane:

Species : Rat  
NOAEL : 200 mg/kg  
LOAEL : 600 mg/kg  
Application Route : Ingestion  
Exposure time : 90 Days  
Method : OECD Test Guideline 408

### Aspiration toxicity

Not classified based on available information.

---

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### Butan-2-one O,O',O''-(vinylsilyldiylidene)trioxime:

Toxicity to fish : EC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 120 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 94 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): 30 mg/l  
Exposure time: 72 h  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 : > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC: >= 100 mg/l  
Exposure time: 14 d  
Species: Oryzias latipes (Orange-red killifish)  
Method: OECD Test Guideline 204

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Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC:  $\geq$  100 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
Remarks: Based on data from similar materials

### Ethyl methyl ketoxime:

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 201 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Scenedesmus capricornutum (fresh water algae)): 11,8 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Scenedesmus capricornutum (fresh water algae)): 2,56 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Pseudomonas putida): 281 mg/l  
Exposure time: 17 h

Toxicity to fish (Chronic toxicity) : NOEC: 50 mg/l  
Exposure time: 14 d  
Species: Oryzias latipes (Japanese medaka)  
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 100 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### 3-Aminopropyltriethoxysilane:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 934 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 331 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 1.000 mg/l  
Exposure time: 72 h  
Method: Directive 67/548/EEC, Annex V, C.3.

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NOEC (Desmodesmus subspicatus (green algae)): 1,3 mg/l  
Exposure time: 72 h  
Method: Directive 67/548/EEC, Annex V, C.3.

Toxicity to microorganisms : EC10 (Pseudomonas putida): 13 mg/l  
Exposure time: 5,75 h

### 12.2 Persistence and degradability

#### Components:

##### **Butan-2-one O,O',O''-(vinylsilylidyne)trioxime:**

Biodegradability : Result: not rapidly degradable  
Biodegradation: 0 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301A  
Remarks: Based on data from similar materials

##### **Ethyl methyl ketoxime:**

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 27 %  
Exposure time: 21 d

##### **3-Aminopropyltriethoxysilane:**

Stability in water : Degradation half life (DT50): 8,5 h

### 12.3 Bioaccumulative potential

#### Components:

##### **Butan-2-one O,O',O''-(vinylsilylidyne)trioxime:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 0,5 - 2,5  
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: 0,59 - 0,65

##### **Ethyl methyl ketoxime:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 0,5 - 0,6  
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 0,63

##### **3-Aminopropyltriethoxysilane:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 3,4

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Method: OECD Test Guideline 305C

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : Dispose of in accordance with local regulations.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Empty containers retain residue and can be dangerous.  
Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death.  
If not otherwise specified: Dispose of as unused product.  
Please ensure aerosol cans are sprayed completely empty (including propellant)
- Waste Code : The following Waste Codes are only suggestions:
- used product  
08 04 09, waste adhesives and sealants containing organic solvents or other hazardous substances  
16 05 04, gases in pressure containers (including halons) containing hazardous substances
- unused product  
08 04 09, waste adhesives and sealants containing organic solvents or other hazardous substances  
16 05 04, gases in pressure containers (including halons) containing hazardous substances
- uncleaned packagings  
15 01 10, packaging containing residues of or contaminated by hazardous substances  
16 05 04, gases in pressure containers (including halons) containing hazardous substances

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### SECTION 14: Transport information

#### 14.1 UN number

**ADN** : UN 1950  
**ADR** : UN 1950  
**RID** : UN 1950  
**IMDG** : UN 1950  
**IATA** : UN 1950

#### 14.2 UN proper shipping name

**ADN** : AEROSOLS  
**ADR** : AEROSOLS  
**RID** : AEROSOLS  
**IMDG** : AEROSOLS  
**IATA** : Aerosols, flammable

#### 14.3 Transport hazard class(es)

**ADN** : 2  
**ADR** : 2  
**RID** : 2  
**IMDG** : 2.1  
**IATA** : 2.1

#### 14.4 Packing group

**ADN**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1

**ADR**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1  
Tunnel restriction code : (D)

**RID**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Hazard Identification Number : 23  
Labels : 2.1

**IMDG**  
Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U

**IATA (Cargo)**

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Packing instruction (cargo aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

### IATA (Passenger)

Packing instruction (passenger aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : no

#### ADR

Environmentally hazardous : no

#### RID

Environmentally hazardous : no

#### IMDG

Marine pollutant : no

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Dimethylbis[(1-oxoneodecyl)oxy]stannane (Number on list 20)

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu- : Not applicable

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tants (recast)

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

|     |   | Quantity 1 | Quantity 2 |
|-----|---|------------|------------|
| P3a | FLAMMABLE AEROSOLS  | 150 t      | 500 t      |
| 18  | Liquefied extremely flammable gases (including LPG) and natural gas | 50 t       | 200 t      |

Water contaminating class (Germany) : WGK 1 slightly hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 9 %

### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

### Full text of H-Statements

H302 : Harmful if swallowed.  
H312 : Harmful in contact with skin.  
H314 : Causes severe skin burns and eye damage.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H336 : May cause drowsiness or dizziness.  
H351 : Suspected of causing cancer.  
H372 : Causes damage to organs through prolonged or repeated exposure.



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### Full text of other abbreviations

|                   |   |   |
|-------------------|---|---|
| Acute Tox.        | : | Acute toxicity  |
| Carc.             | : | Carcinogenicity   |
| Eye Dam.          | : | Serious eye damage                                      |
| Skin Corr.        | : | Skin corrosion  |
| Skin Sens.        | : | Skin sensitisation                                      |
| STOT RE           | : | Specific target organ toxicity - repeated exposure      |
| STOT SE           | : | Specific target organ toxicity - single exposure        |
| DE TRGS 900       | : | Germany. TRGS 900 - Occupational exposure limit values. |
| DE TRGS 900 / AGW | : | Time Weighted Average                                   |

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; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

|               |            |
|---------------|------------|
| Aerosol 1     | H222, H229 |
| Skin Irrit. 2 | H315       |

### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method                  |

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|              |      |                    |
|--------------|------|--------------------|
| Eye Dam. 1   | H318 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| Carc. 2      | H351 | Calculation method |
| STOT RE 1    | H372 | Calculation method |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

DE / EN