

Ramsauer GmbH & Co KG  
5350 Strobl / Wolfgangsee

Date printed 19.12.2023, Revision 19.12.2023

Version 8.0. Supersedes version: 7.0

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

### 1.1 Product identifier

**Brandschutz 340**

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

#### 1.2.1 Relevant uses

Silicon

#### 1.2.2 Uses advised against

None known.

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

#### Company

Ramsauer GmbH & Co KG  
Alte Bundesstraße 147  
5350 Strobl / Wolfgangsee / AUSTRIA  
Phone +43 (0)6135 8205 0  
Fax +43 (0)6135 8205-250  
Homepage [www.ramsauer.eu](http://www.ramsauer.eu)  
E-mail [office@ramsauer.eu](mailto:office@ramsauer.eu)

#### Address enquiries to

#### Technical information

[office@ramsauer.at](mailto:office@ramsauer.at)

#### Safety Data Sheet

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de) (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

### 1.4 Emergency telephone number

#### Advisory body

+43 (0) 1 406 43 43 (24h)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

No classification.

### 2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

#### Hazard pictograms

none

#### Signal word

none

#### Hazard statements

none

#### Precautionary statements

none

#### Special labelling

EUH210 Safety data sheet available on request.

Contains: 3-Aminopropyltriethoxysilane. EUH208 May produce an allergic reaction.

### 2.3 Other hazards

#### Physico-chemical hazards

Contact with moisture liberates Methanol and acetone oxime.

#### Environmental hazards

Does not contain any PBT or vPvB substances.  
Contains no ingredients with endocrine-disrupting properties.

#### Other hazards

Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

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### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
1 - <5	5-ethyl-2,8-dimethyl-5-[(propan-2-ylideneamino)oxy]-4,6-dioxo-3,7-diaza-5-silanon-2,7-diene CAS: 58190-57-1, EINECS/ELINCS: 611-631-1, Reg-No.: 01-2119982962-22-XXXX GHS/CLP: STOT RE 2: H373
0,1 - <1	3-Aminopropyltriethoxysilane CAS: 919-30-2, EINECS/ELINCS: 213-048-4, EU-INDEX: 612-108-00-0, Reg-No.: 01-2119480479-24-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Skin Sens. 1: H317 - Eye Dam. 1: H318 -

Comment on component parts

For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Take off contaminated clothing and wash before reuse.

#### Inhalation

Ensure supply of fresh air.  
In the event of symptoms seek medical treatment.

#### Skin contact

In case of contact with skin wash off immediately with soap and water.  
Consult a doctor if skin irritation persists.

#### Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

#### Ingestion

Consult a doctor immediately.

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

Irritant effects  
Allergic reactions

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide.  
Foam.  
Dry powder.  
Water spray jet.

#### Extinguishing media that must not be used

Full water jet.

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

In the event of fire the following can be released:  
Carbon monoxide (CO)  
Nitrogen oxides (NOx).

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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## SECTION 6: Accidental release measures

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

Ensure adequate ventilation.  
High risk of slipping due to leakage/spillage of product.  
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

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

Take up mechanically.  
Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).  
Dispose of absorbed material in accordance within the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.

Wash hands before breaks and after work.  
Use barrier skin cream.  
Do not eat, drink, smoke or take drugs at work.  
Take off contaminated clothing and wash before reuse.

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

Keep only in original container.  
Prevent penetration into the ground.  
Do not store together with food and animal food/diet.  
Keep container tightly closed.  
Keep in a cool place. Store in a dry place.  
Protect from heat/overheating.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

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## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

#### DNEL

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
Industrial, inhalative, Long-term - systemic effects, 59 mg/kg
Industrial, inhalative, Acute - systemic effects, 59 mg/kg
Industrial, dermal, Long-term - systemic effects, 8,3 mg/kg bw/d
Industrial, dermal, Acute - systemic effects, 8,3 mg/kg bw/d
general population, dermal, Long-term - systemic effects, 5 mg/kg bw/d
general population, inhalative, Long-term - systemic effects, 17,4 mg/kg
general population, inhalative, Acute - systemic effects, 17,4 mg/kg
general population, dermal, Acute - systemic effects, 5 mg/kg bw/d
general population, oral, Acute - systemic effects, 5 mg/kg bw/d
5-ethyl-2,8-dimethyl-5-[(propan-2-ylideneamino)oxy]-4,6-dioxo-3,7-diaza-5-silanon-2,7-diene, CAS: 58190-57-1
Industrial, dermal, Long-term - systemic effects, 59,35 µg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 418,57 µg/m³
general population, oral, Long-term - systemic effects, 29,68 µg/kg bw/day
general population, dermal, Long-term - systemic effects, 29,68 µg/kg bw/day
general population, inhalative, Long-term - systemic effects, 103,22 µg/m³

#### PNEC

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
sediment (seawater), 0,12 mg/kg
sediment (freshwater), 1,2 mg/kg
sewage treatment plants (STP), 13 mg/l
sediment (seawater), 0,05 mg/kg
seawater, 0,033 mg/l
freshwater, 0,33 mg/l
5-ethyl-2,8-dimethyl-5-[(propan-2-ylideneamino)oxy]-4,6-dioxo-3,7-diaza-5-silanon-2,7-diene, CAS: 58190-57-1
soil, 240,95 mg/kg soil dw
sediment (seawater), 204,705 mg/kg sediment dw
sediment (freshwater), 2047,053 mg/kg sediment dw
sewage treatment plants (STP), 2,398 µg/L
seawater, 23,98 µg/L
freshwater, 239,78 µg/L

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## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	0,4 mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Avoid contact with eyes and skin. Do not inhale vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387)
<b>Thermal hazards</b>	no
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	liquid
<b>Form</b>	pasty
<b>Color</b>	various
<b>Odor</b>	characteristic
<b>Odour threshold</b>	not determined
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not determined
<b>Boiling point or initial boiling point and boiling range [°C]</b>	not applicable
<b>Flash point [°C]</b>	not applicable
<b>Flammability</b>	not determined
<b>Lower explosion limit</b>	not applicable
<b>Upper explosion limit</b>	not applicable
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	not determined
<b>Density [g/cm³]</b>	not determined
<b>Relative density</b>	not determined
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	virtually insoluble
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient n-octanol/water (log value)</b>	not determined
<b>Kinematic viscosity</b>	not applicable
<b>Relative vapour density</b>	not determined
<b>Melting point [°C]</b>	not determined
<b>Auto-ignition temperature [°C]</b>	not applicable
<b>Decomposition temperature [°C]</b>	>150
<b>Particle characteristics</b>	No information available.

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## 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See SECTION 10.3.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

### 10.4 Conditions to avoid

See SECTION 7

### 10.5 Incompatible materials

Water

### 10.6 Hazardous decomposition products

In the case of heating (150-180°C) following modest (decomposition) products may occur:  
Formaldehyde.

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## SECTION 11: Toxicological information

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

#### Acute oral toxicity

Based on available data, the classification criteria are not met.

Product
oral, Based on the available information, the classification criteria are not fulfilled.
Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
LD50, oral, Rat (male), 2690 mg/kg (EPA)
LD50, oral, Rat (female), 1490 mg/kg (EPA)
NOAEL, oral, Rat, 200 mg/kg (90 d) (OECD TG 408)
5-ethyl-2,8-dimethyl-5-[(propan-2-ylideneamino)oxy]-4,6-dioxo-3,7-diaza-5-silanon-2,7-diene, CAS: 58190-57-1
LD50, oral, Rat, 2500 mg/kg (OECD 423)

#### Acute dermal toxicity

Based on available data, the classification criteria are not met.

Product
dermal, Based on the available information, the classification criteria are not fulfilled.
Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
LD50, dermal, Rabbit, 4076 mg/kg (EPA)
5-ethyl-2,8-dimethyl-5-[(propan-2-ylideneamino)oxy]-4,6-dioxo-3,7-diaza-5-silanon-2,7-diene, CAS: 58190-57-1
LD50, dermal, Rat, ~2500 mg/kg (OECD 402)

#### Acute inhalational toxicity

Based on available data, the classification criteria are not met.

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.
Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
LC50, inhalation (vapour), Rat (female), > 0,144 mg/l / 6 h OECD TG 403

#### Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
Eye, Rabbit, OECD 405, corrosive

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
dermal, Rabbit, OECD 404, corrosive

#### Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.  
May cause an allergic skin reaction.

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
dermal, Guinea pig, OECD 406, sensitising

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**Specific target organ toxicity — single exposure** Based on available data, the classification criteria are not met.

**Specific target organ toxicity — repeated exposure** Based on available data, the classification criteria are not met.

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
oral, Rat, OECD 408, negativ
5-ethyl-2,8-dimethyl-5-[(propan-2-ylideneamino)oxy]-4,6-dioxo-3,7-diaza-5-silanona-2,7-diene, CAS: 58190-57-1
NOAEL, oral, Rat, 11,87 mg/kg bw/day, systemic, subchronic,

**Mutagenicity** Does not contain a relevant substance that meets the classification criteria.

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
Ames-test, negativ

**Reproduction toxicity** Does not contain a relevant substance that meets the classification criteria.

**- Fertility**

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
NOAEL, oral, Rat, 600 mg/kg bw/day, Study, negativ
5-ethyl-2,8-dimethyl-5-[(propan-2-ylideneamino)oxy]-4,6-dioxo-3,7-diaza-5-silanona-2,7-diene, CAS: 58190-57-1
NOAEL, oral, Rat, 79,13 mg/kg bw/day, fertility, subchronic,

**- Development**

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
NOAEL, oral, Rat, 600 mg/kg bw/day, Study, negativ
5-ethyl-2,8-dimethyl-5-[(propan-2-ylideneamino)oxy]-4,6-dioxo-3,7-diaza-5-silanona-2,7-diene, CAS: 58190-57-1
NOAEL, oral, Rat, 79,13 mg/kg bw/day, fertility, subchronic,

**Carcinogenicity** Does not contain a relevant substance that meets the classification criteria.

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
NOAEL, dermal, mouse, 209 mg/kg bw/day, Study, negativ

**Aspiration hazard** Based on available data, the classification criteria are not met.

**General remarks**

Toxicological data of complete product are not available.

**11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties** Contains no ingredients with endocrine-disrupting properties.

**11.2.2 Other information** none



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## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
EC50, (72h), <i>Scenedesmus subspicatus</i> , > 1000 mg/l (OECD TG 201)
EC50, (48h), <i>Daphnia magna</i> , 331 mg/l (OECD TG 202)
LC0, (96h), <i>Brachidanio rerio</i> , > 934 mg/l (OECD TG 203)
NOEC, (72h), <i>Scenedesmus subspicatus</i> , 1,3 mg/l (OECD TG 201)
EC10, <i>Pseudomonas putida</i> , 13 mg/l (5,75 h) (Bringmann & Kühn)
5-ethyl-2,8-dimethyl-5-[(propan-2-ylideneamino)oxy]-4,6-dioxo-3,7-diaza-5-silanon-2,7-diene, CAS: 58190-57-1
LC50, (96h), <i>Pimephales promelas</i> , 696,76 mg/l (OECD 203)
EC50, (72h), <i>Pseudokirchneriella subcapitata</i> , 315,36 mg/l (OECD 201)
EC50, (48h), <i>Daphnia magna</i> , 678,73 mg/l (OECD 202)

### 12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

### 12.3 Bioaccumulative potential

not determined

### 12.4 Mobility in soil

not applicable

### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

### 12.7 Other adverse effects

Ecological data of complete product are not available.  
Do not discharge product unmonitored into the environment.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

##### Product

For recycling, consult manufacturer.

Disposal in an incineration plant in accordance with the regulations of the local authorities.

##### Waste no. (recommended)

070217

##### Contaminated packaging

Uncontaminated packaging may be taken for recycling.

##### Waste no. (recommended)

150102

### SECTION 14: Transport information

#### 14.1 UN number or ID number

##### Transport by land according to ADR/RID

not applicable

##### Inland navigation (ADN)

not applicable

##### Marine transport in accordance with IMDG

not applicable

Air transport in accordance with IATA not applicable

#### 14.2 UN proper shipping name

##### Transport by land according to ADR/RID

NO DANGEROUS GOODS

##### Inland navigation (ADN)

NO DANGEROUS GOODS

##### Marine transport in accordance with IMDG

NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

#### 14.3 Transport hazard class(es)

##### Transport by land according to ADR/RID

not applicable

##### Inland navigation (ADN)

not applicable

##### Marine transport in accordance with IMDG

not applicable

Air transport in accordance with IATA not applicable

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#### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

#### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

### SECTION 15: Regulatory information

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

EEC-REGULATIONS	2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148
- Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
- Annex I (REACH)	The product is not subject to Annex I restrictions.
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq 0.1\%$ that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains $\geq 0.1\%$ of substances with the following restrictions. 3, 75 According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to any restrictions.
TRANSPORT-REGULATIONS	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)
NATIONAL REGULATIONS (EU):	
- Observe employment restrictions for people	no
- VOC (2010/75/CE)	0 %

#### 15.2 Chemical safety assessment

not applicable

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## SECTION 16: Other information

### 16.1 Hazard statements (SECTION 3)

-  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.  
H314 Causes severe skin burns and eye damage.  
H302 Harmful if swallowed.  
H373 May cause damage to organs through prolonged or repeated exposure.

### 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV®/TWA = Threshold limit value – time-weighted average  
TLV®STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

### 16.3 Other information

This document does not comply with Regulation (EC) No 1907/2006, article 31 (5) and may be used for internal purposes only.

#### Classification procedure

#### Modified position

1.2, 1.3, 3.2, 8.1, 8.2, 9.1, 11.1, 11.2, 12.6, 12.7, 15.1, 16.2, 16.3

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