

Ramsauer GmbH & Co KG  
5350 Strobl / Wolfgangsee

Date printed 18.12.2024, Revision 18.12.2024

Version 1.0

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

### 1.1 Product identifier

**452 Sanitär Elast**

### 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.eu](mailto:office@ramsauer.eu)

#### 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.  
Product treated with biocide 2-octyl-2H-isothiazol-3-one.  
Contains: 2-Octyl-2H-isothiazol-3-one. EUH208 May produce an allergic reaction.

### 2.3 Other hazards

#### Human health dangers

Frequent persistent contact with the skin can cause skin irritation.  
Contact with moisture liberates acetic acid.

#### 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

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
< 2,5	Triacetoxylethylsilane CAS: 17689-77-9, EINECS/ELINCS: 241-677-4, Reg-No.: 01-2119881778-15-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 - EUH014
<1,5	Oligomeric ethyl and Methylacetoxysilane GHS/CLP: Skin Corr. 1B: H314 - Eye Dam. 1: H318
<1,5	Triacetoxymethylsilane CAS: 4253-34-3, EINECS/ELINCS: 224-221-9, Reg-No.: 01-2119962266-32-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1C: H314 - Eye Dam. 1: H318 - EUH014
0,0015 - <0,0025	2-Octyl-2H-isothiazol-3-one CAS: 26530-20-1, EINECS/ELINCS: 247-761-7, EU-INDEX: 613-112-00-5 GHS/CLP: Acute Tox. 4: H302 - Acute Tox. 3: H311 - Acute Tox. 3: H331 - Skin Corr. 1B: H314 - Skin Sens. 1A: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410 - EUH071, M-Factor (acute): 100, M-Factor (chronic): 100 SCL [%]: 0,0015: Skin Sens. 1: H317

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

When in contact with the skin, clean 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

Seek medical advice 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

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

#### 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)

### 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.

### 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.  
Take off contaminated clothing and wash before reuse.  
Do not eat, drink, smoke or take drugs at work.

### 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 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)

Substance / EC LIMIT VALUES
Acetic acid
CAS: 64-19-7, EINECS/ELINCS: 200-580-7, EU-INDEX: 607-002-00-6, Reg-No.: 01-2119475328-30-XXXX
Eight hours: 10 ppm, 25 mg/m <sup>3</sup>
Short-term (15-minute): 20 ppm, 50 mg/m <sup>3</sup>

#### DNEL

Substance
Triacetoxylethylsilane, CAS: 17689-77-9
Industrial, inhalative, Long-term - local effects, 32,5 mg/m <sup>3</sup>
Industrial, inhalative, Acute - local effects, 32,5 mg/m <sup>3</sup>
general population, inhalative, Long-term - local effects, 6,5 mg/m <sup>3</sup>
Triacetoxymethylsilane, CAS: 4253-34-3
Industrial, inhalative, Long-term - local effects, 31 mg/m <sup>3</sup>
Industrial, inhalative, Acute - local effects, 61 mg/m <sup>3</sup>
general population, inhalative, Long-term - local effects, 31 mg/m <sup>3</sup>
general population, inhalative, Acute - local effects, 61 mg/m <sup>3</sup>

#### PNEC

Substance
Triacetoxylethylsilane, CAS: 17689-77-9
freshwater, 0.2 mg/L (AF=50)
seawater, 0.02 mg/L (AF=500)
sewage treatment plants (STP), 1 mg/L (AF=100)
sediment (freshwater), 0.74 mg/kg dw
sediment (seawater), 0.074 mg/kg dw
soil, 0.031 mg/kg dw
Triacetoxymethylsilane, CAS: 4253-34-3
sediment (freshwater), 4,8 mg/kg sediment dw
sediment (seawater), 480 µg/kg sediment dw
soil, 190 µg/kg soil dw
sewage treatment plants (STP), 6.9 mg/L

### 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, >120 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Not required under normal conditions.
<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 E (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.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	pasty
Color	various
Odor	acetic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not determined
Boiling point or initial boiling point and boiling range [°C]	not applicable
Flash point [°C]	> 150
Flammability	> 400
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	< 0,5 (20°C)
Density [g/cm <sup>3</sup> ]	ca. 1,02 (EN ISO 1183-1)
Relative density	not determined
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	not determined
Kinematic viscosity	not applicable
Relative vapour density	not determined
Melting point [°C]	not determined
Auto-ignition temperature [°C]	not determined
Decomposition temperature [°C]	> 130
Particle characteristics	No information available.

### 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

Contact with moisture liberates acetic acid.  
Reactions with strong oxidizing agents.

### 10.4 Conditions to avoid

See SECTION 7.2.  
Contact with moisture.

### 10.5 Incompatible materials

Strong oxidizing agent.

#### 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
ATE-mix, oral, > 2000 mg/kg
Substance
2-Octyl-2H-isothiazol-3-one, CAS: 26530-20-1
ATE, oral, 125 mg/kg (harmonised)
Triacetoxylethylsilane, CAS: 17689-77-9
LD50, oral, Rat, 1460 mg/kg bw, OECD 401
Triacetoxymethylsilane, CAS: 4253-34-3
LD50, oral, Rat, 1600 mg/kg, OECD 401

**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
2-Octyl-2H-isothiazol-3-one, CAS: 26530-20-1
ATE, dermal, 311 mg/kg (harmonised)

**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
2-Octyl-2H-isothiazol-3-one, CAS: 26530-20-1
ATE, inhalativ (mist), 0,27 mg/L (harmonised)

**Serious eye damage/irritation** No classification due to toxicological investigations.

Substance
Triacetoxymethylsilane, CAS: 4253-34-3
Rabbit, OECD 404, corrosive

**Skin corrosion/irritation** No classification due to toxicological investigations.

Substance
Triacetoxylethylsilane, CAS: 17689-77-9
Rabbit, OECD 405, corrosive

**Respiratory or skin sensitisation** No classification due to toxicological investigations.  
May cause an allergic skin reaction.

**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.

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

Substance
Triacetoxylethylsilane, CAS: 17689-77-9
Ames-test, negativ
Triacetoxymethylsilane, CAS: 4253-34-3
Ames-test, negativ

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

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**- Fertility**

Substance
Triacetoxylethylsilane, CAS: 17689-77-9
NOAEL, oral, Rat, 3048,62 mg/kg bw/day, OECD 422

**- Development**

Substance
Triacetoxylethylsilane, CAS: 17689-77-9
NOAEL, oral, Rat, 3048,62 mg/kg bw/day, OECD 422

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

**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

**SECTION 12: Ecological information**

**12.1 Toxicity**

Toxicological data of complete product are not available.

Substance
2-Octyl-2H-isothiazol-3-one, CAS: 26530-20-1
LC50, (96h), Fish, 122 µg/L
EC50, (96h), Algae, 150 µg/L
EC50, (48h), Daphnia magna, 0,18 mg/l (Lit.)
Triacetoxylethylsilane, CAS: 17689-77-9
LC50, (96h), Danio rerio, 251 mg/l
EC50, (48h), Daphnia magna, 62 mg/l
IC50, (72h), Pseudokirchneriella subcapitata, 73 mg/l
Triacetoxymethylsilane, CAS: 4253-34-3
LC50, (96h), Fish, 79 - 500 mg/L
EC50, (48h), Invertebrates, 65 - 500 mg/L
EC50, (72h), Algae, 24,41 - 1562,5 mg/L

**12.2 Persistence and degradability**

No information available.

**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.



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## 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

## 12.7 Other adverse effects

none

## 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.  
Packaging that cannot be cleaned should be disposed of as for product.

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/EG (2000/532/EC ); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

- **Comment on component parts** Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

- **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. 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 (2024)

**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)

H410 Very toxic to aquatic life with long lasting effects.  
H317 May cause an allergic skin reaction.  
H400 Very toxic to aquatic life.  
H331 Toxic if inhaled.  
H311 Toxic in contact with skin.  
EUH014 Reacts violently with water.  
H318 Causes serious eye damage.  
H314 Causes severe skin burns and eye damage.  
H302 Harmful if swallowed.

### 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 none

