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

## 1.1 Product identifier

Trade name: KE-4890-W

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

General use: One component RTV silicone rubber for general industrial sealing purposes
For industrial purposes only.

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


Company name: Shin-Etsu Silicones Europe B.V.
Street/POB-No.: Bolderweg 32
Postal Code, city: 1332 AV Almere
Netherlands
Telephone: +31 36-5493-170
Telefax: +31 36-5326-459
Dept. responsible for information:
QA department,
Telephone: +31 36-5493-179, Email: sds@shinetsusilicones.eu


## 1.4 Emergency telephone number

**Telephone: +31 36-5493-170**
**Only available during office hours.**

# SECTION 2: Hazards identification

## 2.1 Classification of the substance or mixture

### Classification according to EC regulation 1272/2008 (CLP)

Skin Irrit. 2; H315 Causes skin irritation.
Eye Irrit. 2; H319 Causes serious eye irritation.
Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

## 2.2 Label elements

### Labelling (CLP)

Signal word: **Warning**

Hazard statements:
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

| | |
|---|---|
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of water/soap. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |
| P501 | Dispose of contents/container to hazardous or special waste collection point. |

**Special labelling**

| | |
|---|---|
| EUH208 | Contains 3-Aminopropyltriethoxysilane, N-(3-(Trimethoxysilyl)propyl)ethylenediamine, Dibutyltin dilaurate. May produce an allergic reaction. |

### 2.3 Other hazards

May cause sensitisation especially in sensitive humans.
With exposure to water, humidity, product will release methanol.

Results of PBT and vPvB assessment:

No data available

## SECTION 3: Composition / information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Hazardous ingredients:

| Ingredient | Designation | Content | Classification |
|---|---|---|---|
| EC No. 458-430-3<br>CAS 504396-15-0 | 2-Ethylhexyl acrylate, reaction product with dimethoxymethylsilane | 5 - 10 % | Skin Irrit. 2; H315. |
| EC No. 213-048-4<br>CAS 919-30-2 | 3-Aminopropyltriethoxysilane | < 1 % | Acute Tox. 4; H302. Skin Corr. 1B; H314. Skin Sens. 1; H317. |
| EC No. 217-164-6<br>CAS 1760-24-3 | N-(3-(Trimethoxysilyl) propyl)ethylenediamine | < 1 % | Eye Dam. 1; H318. Skin Sens. 1; H317. |
| EC No. 274-092-8<br>CAS 69709-01-9 | N,N,N',N'-Tetramethyl-N''-[3-(trimethoxysilyl)propyl] guanidin | < 1 % | Skin Corr. 1C; H314. |
| EC No. 200-659-6<br>CAS 67-56-1 | Methanol | < 1 % | Flam. Liq. 2; H225. Acute Tox. 3; H301. Acute Tox. 3; H311. Acute Tox. 3; H331. STOT SE 1; H370. |
| EC No. 201-039-8<br>CAS 77-58-7 | Dibutyltin dilaurate | < 0.3 % | Skin Corr. 1B; H314. Eye Dam. 1; H318. Skin Sens. 1; H317. Muta. 2; H341. Repr. 1B; H360FD. STOT SE 1; H370. STOT RE 1; H372. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. |

Full text of H- and EUH-statements: see section 16.

Additional information: Contains Titanium dioxide. Titanium dioxide is bound physically in the product and does not cause any risk under the recommended conditions of use.
With exposure to water, humidity, product will release methanol.
The maximum workplace exposure limits are, where necessary, listed in section 8.

# SECTION 4: First aid measures

## 4.1 Description of first aid measures

In case of inhalation: Move victim to fresh air. Seek medical treatment in case of troubles.

Following skin contact: Wash with generous amount of water and soap.
Take off contaminated clothing and wash it before reuse.
Seek medical attention.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Seek the attention of an ophthalmologist immediately.

After swallowing: Never give an unconscious person anything through the mouth. Rinse mouth with water.
Seek medical attention.

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

Causes skin irritation. Causes serious eye irritation.
May cause allergic reactions in already sensitized persons.

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

Treat symptomatically.

# SECTION 5: Firefighting measures

## 5.1 Extinguishing media

Suitable extinguishing media::

Foam, extinguishing powder, water fog, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

## 5.2 Special hazards arising from the substance or mixture

Combustible. In case of fire may be liberated: Silicon dioxide, nitrogen oxides (NOx), traces of incompletely burned carbon compounds, formaldehyde, carbon monoxide and carbon dioxide.

## 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus. Wear appropriate protective equipment.

Additional information: Hazchem-Code: -

Cool endangered containers with water spray and, if possible, remove from danger zone. Use water spray jet to knock down vapours. Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water.

# SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Keep unprotected people away. In case of leakage, eliminate all ignition sources. Stop leak if safe to do so. Avoid contact with skin, eyes, and clothing. Do not breathe vapour/aerosol. Wear appropriate protective equipment. Provide adequate ventilation.

## 6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.
If necessary notify appropriate authorities.

## 6.3 Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).
In case of spills of large quantities: Stop leak if safe to do so. Dam spills. Covered by plastic film. Take up with non-flammable, liquid binding material (e.g. sand/earth/diatomaceous earth/vermiculit) and perform disposal according to instructions.
Never return spills in original containers for re-use.

Additional information: Use only spark proof tools.

Special danger of slipping by leaking/spilling product.

## 6.4 Reference to other sections

Refer additionally to section 8 and 13.

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

Advices on safe handling: When not in use, keep containers tightly closed. Use only in well-ventilated areas.
Provide adequate ventilation, and local exhaust as needed.
Avoid contact with skin, eyes, and clothing. Do not breathe vapours.
Wear appropriate protective equipment. When using do not eat, drink or smoke.

Precautions against fire and explosion:

Usual measures for fire prevention. Do not weld.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep only in the original container in a cool, well-ventilated place.
Keep container tightly closed and dry. Protect from direct sunlight.
Keep away from heat sources, sparks and open flames. Protect from moisture.
Store containers in upright position. Do not drop, drag or bang the container.
Do not re-use the empty container.

## 7.3 Specific end use(s)

No information available.

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

Occupational exposure limit values:

| CAS No. | Designation | Type | Limit value |
|---|---|---|---|
| 13463-67-7 | Titanium dioxide | Great Britain: WEL-TWA | 10 mg/m³ (inhalable fraction) |
| | | Great Britain: WEL-TWA | 4 mg/m³ (respirable fraction) |
| | | Ireland: 8 hours | 10 mg/m³ (inhalable fraction) |
| | | Ireland: 8 hours | 4 mg/m³ (respirable fraction) |
| 67-56-1 | Methanol | Europe: IOELV: TWA | 260 mg/m³; 200 ppm<br>(May be absorbed through the skin.) |
| | | Great Britain: WEL-STEL | 333 mg/m³; 250 ppm |
| | | Great Britain: WEL-TWA | 266 mg/m³; 200 ppm |
| | | Ireland: 8 hours | 260 mg/m³; 200 ppm<br>May be absorbed through the skin. |
| 77-58-7 | Dibutyltin dilaurate | Great Britain: WEL-STEL | 0.2 mg/m³ |
| | | Great Britain: WEL-TWA | 0.1 mg/m³ |
| | | Ireland: 15 minutes | 0.2 mg/m³ compounds, organic |
| | | Ireland: 8 hours | 0.1 mg/m³ compounds, organic |

## 8.2 Exposure controls

Provide for good room ventilation, suctioning/venting. Pay attention to ventilation such as local exhaust, mechanical and/or door open for at least 24 hours after application.

### Personal protection equipment

#### Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Hand protection: Protective gloves according to EN 374.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Keep away from heat sources, sparks and open flames.
Avoid contact with skin, eyes, and clothing. Change contaminated clothing.
Do not breathe vapour/aerosol. Eye wash facility must be provided.
After work, wash hands and face.

# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Appearance: Form: solid, pasty
Colour: white

| | |
|---|---|
| Odour: | alcoholic |
| Odour threshold: | No data available |
| pH value: | No data available |
| Melting point/freezing point: | not applicable |
| Initial boiling point and boiling range: | No data available |
| Flash point/flash point range: | 60 °C (c.c.) |
| Evaporation rate: | (butyl acetate =1) <= 1 |
| Flammability: | No data available |
| Explosion limits: | LEL (Lower Explosion Limit): 6.00 Vol-% (methanol)<br>UEL (Upper Explosive Limit): 36.00 Vol-% (methanol) |
| Vapour pressure: | at 25 °C: negligible |
| Vapour density: | (air =1) >= 1 |
| Density: | at 25 °C: 1.46 g/cm³ |
| Water solubility: | insoluble |
| Partition coefficient: n-octanol/water: | not applicable |
| Auto-ignition temperature: | > 300 °C |
| Decomposition temperature: | No data available |
| Viscosity, dynamic: | not applicable |
| Explosive properties: | No data available |
| Oxidizing characteristics: | No data available |

### 9.2 Other information

| | |
|---|---|
| Additional information: | No data available |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

With exposure to water, humidity, product will release methanol.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No dangerous reactions with proper and specified storage and handling

### 10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames. Protect from moisture. Protect from direct sunlight.

### 10.5 Incompatible materials

Water, humidity, strong oxidizing agents

### 10.6 Hazardous decomposition products

Methanol.
Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition products: Silicon dioxide, nitrogen oxides (NOx), traces of incompletely burned carbon compounds, formaldehyde, carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Toxicological effects: Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data. Contains 3-Aminopropyltriethoxysilane, N-(3-(Trimethoxysilyl)propyl)ethylenediamine, Dibutyltin dilaurate. May produce an allergic reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Other information: Information about 3-Aminopropyltriethoxysilane:
LD50 Rat, oral: 1570-3650 mg/kg
LD50 Rabbit dermal: 4290 mg/kg

Information about N-(3-(Trimethoxysilyl)propyl)ethylenediamine:
LD50 Rat, oral: 2400 mg/kg
LD50 Rabbit dermal: > 2000 mg/kg

Information about Dibutyltin dilaurate:
LD50 Rat, oral: > 2000 mg/kg

Information about N,N,N',N'-Tetramethyl-N''-[3-(trimethoxysilyl)propyl]guanidin:
LD50 Rat, oral: 3.67 /kg

Information about reaction product of 2-Ethylhexyl acrylate and dimethoxymethylsilane:
LD50 Rat, oral: > 2500 mg/kg

Information about Methanol:
LD50 Rat, oral: 5628 mg/kg.
LD50 Rabbit, dermal: 7300 mg/kg
LC50 Rat, inhalative: 64000 ppm/4h.

### Symptoms

After contact with skin: Redness, pain
After eye contact: Causes tears, redness, pain,

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.

Information about 3-Aminopropyltriethoxysilane:
Fish toxicity: LC50 Oryzias latipes: > 1000 mg/L/48h

Information about N-(3-(Trimethoxysilyl)propyl)ethylenediamine:
Algae toxicity: EC50 Selenastrum caapricomutum: 5.5 mg/L/72h
Daphnia toxicity: EC50 Daphnia magna: 81 mg/L/48h
Fish toxicity: EC50 Brachydanio rerio: 597 mg/L/96h

Information about Methanol (Decomposition):
Daphnia toxicity: EC50 Daphnia magna: > 10000 mg/L/48h
Fish toxicity: LC50 Pimephales promelas: > 100 mg/L/96h

### 12.2. Persistence and degradability

Further details: No data available

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:
not applicable

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 08 04 09* = Waste adhesives and sealants containing organic solvents or other dangerous substances
MFSU = manufacture, formulation, supply and use
* = Evidence for disposal must be provided.

Recommendation: Incinerate according to applicable local, state and federal regulations.

#### Contaminated packaging

Waste key number: 15 01 02 = Plastic packaging

Recommendation: Do not re-use the empty container.
Dispose of waste according to applicable legislation.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID, IMDG, IATA-DGR:

not applicable

### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not restricted

### 14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

### 14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable

### 14.5 Environmental hazards

Marine pollutant: no

### 14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

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

No data available

## SECTION 15: Regulatory information

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

#### National regulations - Great Britain

Hazchem-Code: -

No data available

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

# SECTION 16: Other information

## Further information

Wording of the H-phrases under paragraph 2 and 3:

H225 = Highly flammable liquid and vapour.
H301 = Toxic if swallowed.
H302 = Harmful if swallowed.
H311 = Toxic in contact with skin.
H314 = Causes severe skin burns and eye damage.
H315 = Causes skin irritation.
H317 = May cause an allergic skin reaction.
H318 = Causes serious eye damage.
H319 = Causes serious eye irritation.
H331 = Toxic if inhaled.
H341 = Suspected of causing genetic defects.
H360FD = May damage fertility. May damage the unborn child.
H370 = Causes damage to organs.
H372 = Causes damage to organs through prolonged or repeated exposure.
H400 = Very toxic to aquatic life.
H410 = Very toxic to aquatic life with long lasting effects.
H412 = Harmful to aquatic life with long lasting effects.
EUH208 = Contains 3-Aminopropyltriethoxysilane, N-(3-(Trimethoxysilyl)propyl)ethylenediamine, Dibutyltin dilaurate. May produce an allergic reaction.

Date of first version: 13/10/2016

## Department issuing data sheet

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.