

# SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006



Product name: 6600 SFR Air Bond

Creation date: 01.01.2023, Revision: 26.02.2025, Version: 3.1

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

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### 1.1 Product identifier

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**Product name**

6600 SFR Air Bond

**UFI:**

TN8K-30YR-T008-PESX



<https://my.chemius.net/p/53bLEJ/en/pd/en>

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

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**Relevant identified uses**

No information.

**Uses advised against**

No information.

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

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**Manufacturer**

SILCO d.o.o.  
Sentrupert 5a  
3303 Gomilsko, Slovenia  
+386 3 703 3180  
msds@silco.si

### 1.4 Emergency Telephone Number

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**Emergency**

111

**Manufacturer**

112

## Section 2: Hazards identification

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### 2.1 Classification of the substance or mixture

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**Classification according to Regulation (EC) No 1272/2008 (CLP)**

Flam. Liq. 3; H226 Flammable liquid and vapour.  
Skin Irrit. 2; H315 Causes skin irritation.  
Skin Sens. 1; H317 May cause an allergic skin reaction.  
Eye Irrit. 2; H319 Causes serious eye irritation.  
Repr. 2; H361d Suspected of damaging the unborn child.  
STOT RE 1; H372 Causes damage to organs through prolonged or repeated exposure.

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***silco***<sup>®</sup>

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## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP)



#### Signal word: **DANGER**

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H361d Suspected of damaging the unborn child.  
H372 Causes damage to organs through prolonged or repeated exposure.  
P201 Obtain special instructions before use.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with national regulation.

#### Contains:

styrene  
maleic anhydride

## 2.3 Other hazards

#### PBT/vPvB

No information.

#### Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

#### Additional information

No information.

## Section 3: Composition/information on ingredients

### 3.1 Substances

For mixtures see 3.2.

### 3.2 Mixtures

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits
<b>Talc (Mg<sub>3</sub> H<sub>2</sub>(Si O<sub>3</sub>)<sub>4</sub>)</b>	14807-96-6 238-877-9 -	30-50	/	/
<b>styrene</b>	100-42-5 202-851-5 601-026-00-0	15-20	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 Repr. 2; H361d STOT RE 1; H372 (hearing organs)	/
<b>amorphous silica</b>	7631-86-9 - -	1-10	/	/
<b>titanium dioxide</b>	13463-67-7 236-675-5 022-006-00-2	1-10	Carc. 2; H351 (inhalation)	/
<b>maleic anhydride</b>	108-31-6 203-571-6 607-096-00-9	0.01- 0.1	Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1A; H317 Eye Dam. 1; H318 Resp. Sens. 1; H334 STOT RE 1; H372 (respiratory system) (inhalation) EUH071	Skin Sens. 1A; H317; C ≥ 0.001%

## Notes for substances

**10** The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.

**D** Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3.

However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words "non-stabilised".

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**V** If the substance is to be placed on the market as fibres (with diameter  $< 3 > 5 \mu\text{m}$  and aspect ratio  $\geq 3:1$ ) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.

**W** It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.

## Section 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. Wash contaminated clothing with water before removing or use gloves.

#### Following inhalation

Remove patient to fresh air – move out of dangerous area. In case of unconsciousness bring patient into stable side position and seek medical attention. If breathing is irregular or respiratory arrest occurs provide artificial respiration. Keep at rest in a position comfortable for breathing. Seek medical help immediately.

#### Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. Consult a physician.

#### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Seek medical help.

#### Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Immediately consult a doctor. Show the physician the safety data sheet or label.

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

#### Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

#### Following skin contact

Itching, redness, pain. May cause sensitisation by skin contact (itching, redness, rashes).

#### Following eye contact

Redness, tearing, pain.

#### Following ingestion

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May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.

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

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Treat symptomatically.

## Section 5: Firefighting measures

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### 5.1 Extinguishing media

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#### Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

#### Unsuitable extinguishing media

Full water jet.

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

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#### Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

### 5.3 Advice for firefighters

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#### Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training. Prolonged heating can cause an explosion. Vapours can form explosive mixtures with air. Cool containers at risk with water spray. If possible remove containers from endangered area.

#### Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

#### Additional information

No information.

## Section 6: ACCIDENTAL RELEASE MEASURES

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

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#### For non-emergency personnel

##### Protective equipment

No information.

##### Precautionary measures

Ensure adequate ventilation. Keep away from sources of ignition and/or heat; No smoking!

##### Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

#### For emergency responders

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Use personal protective equipment.

## 6.2 Environmental precautions

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Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

## 6.3 Methods and material for containment and cleaning up

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### For containment

Stem the spill if this does not pose risks.

### For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Use only explosion-proof instruments and equipment. Use spark-proof tools. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

### Other information

No information.

## 6.4 Reference to other sections

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See also sections 8 and 13.

## Section 7: Handling and storage

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### 7.1 Precautions for safe handling

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#### Protective measures

##### Measures to prevent fire

Ensure adequate ventilation. Keep away from sources of ignition - no smoking. Use spark-proof tools. Take precautionary measures against static discharges. Vapours are heavier than air and spread along the floor. They form explosive mixtures with air.

##### Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

##### Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

##### Other measures

No information.

##### Advice on general occupational hygiene

Use good personal hygiene practices - wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8. Avoid exposure - obtain special instructions before using.

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

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#### Technical measures and storage conditions

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Keep in a cool, dry and well ventilated place. Protect from open fire, heat and direct sunlight.  
Keep away from food, drink and animal feeding stuffs. Keep away from oxidising substances.  
Keep away from sources of ignition - no smoking.

## **Packaging materials**

Store only in original container.

## **Requirements for storage rooms and vessels**

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

## **Storage temperature**

No information.

## **Storage class**

No information.

## **Further information on storage conditions**

No information.

## **7.3 Specific end use(s)**

### **Recommendations**

No information.

### **Industrial sector specific solutions**

No information.

## **Section 8: Exposure controls/personal protection**

### **8.1 Control parameters**

#### **Occupational Exposure limit values**

Name	mg/m <sup>3</sup>	ml/m <sup>3</sup>	Short-term value mg/m <sup>3</sup>	Short-term value ml/m <sup>3</sup>	Remark	Biological Tolerance Values
<b>Styrene (100-42-5)</b>	430	100	1080	250	/	/
<b>Maleic anhydride (108-31-6)</b>	1	/	3	/	Sen	/
<b>Talc, respirable dust (14807-96-6)</b>	1	/	/	/	/	/

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Name	mg/m <sup>3</sup>	ml/m <sup>3</sup>	Short-term value mg/m <sup>3</sup>	Short-term value ml/m <sup>3</sup>	Remark	Biological Tolerance Values
<b>Titanium dioxide respirable (13463-67-7)</b>	4	/	/	/	/	/
<b>Titanium dioxide total inhalable (13463-67-7)</b>	10	/	/	/	/	/

## Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

## DNEL/DMEL values

### For product

No information.

### For components

Name	Type	Exposure route	exp. frequency	Remark	Value
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	Worker	inhalation	long term systemic effects	/	2.16 mg/m <sup>3</sup>
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	Worker	inhalation	short term systemic effects	/	2.16 mg/m <sup>3</sup>
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	Worker	inhalation	long term local effects	/	3.6 mg/m <sup>3</sup>
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	Worker	inhalation	short term local effects	/	3.6 mg/m <sup>3</sup>
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	Worker	dermal	long term systemic effects	/	43.2 mg/kg bw/day



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<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	Worker	dermal	long term local effects	/	4.54 mg/cm <sup>2</sup>
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	Consumer	inhalation	long term systemic effects	/	1.08 mg/m <sup>3</sup>
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	Consumer	inhalation	short term systemic effects	/	1.08 mg/m <sup>3</sup>
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	Consumer	inhalation	long term local effects	/	1.8 mg/m <sup>3</sup>
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	Consumer	inhalation	short term local effects	/	1.8 mg/m <sup>3</sup>
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	Consumer	dermal	long term systemic effects	/	21.6 mg/kg bw/day
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	Consumer	dermal	long term local effects	/	2.27 mg/cm <sup>2</sup>
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	Consumer	oral	long term systemic effects	/	160 mg/kg bw/day
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	Consumer	oral	short term systemic effects	/	160 mg/kg bw/day
<b>styrene</b>	Worker	inhalation	long term systemic effects	/	85 mg/m <sup>3</sup>
<b>styrene</b>	Worker	inhalation	short term systemic effects	/	289 mg/m <sup>3</sup>
<b>styrene</b>	Worker	inhalation	short term local effects	/	306 mg/m <sup>3</sup>
<b>styrene</b>	Worker	dermal	long term systemic effects	/	406 mg/kg bw/day
<b>styrene</b>	Consumer	inhalation	long term systemic effects	/	10.2 mg/m <sup>3</sup>
<b>styrene</b>	Consumer	inhalation	short term systemic effects	/	174.25 mg/m <sup>3</sup>
<b>styrene</b>	Consumer	inhalation	short term local effects	/	182.75 mg/m <sup>3</sup>

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Name	Type	Exposure route	exp. frequency	Remark	Value
<b>styrene</b>	Consumer	dermal	long term systemic effects	/	343 mg/kg bw/day
<b>styrene</b>	Consumer	oral	long term systemic effects	/	2.1 mg/kg bw/day
<b>maleic anhydride</b>	Worker	inhalation	long term systemic effects	/	0.4 mg/m <sup>3</sup>
<b>maleic anhydride</b>	Worker	inhalation	short term systemic effects	/	0.8 mg/m <sup>3</sup>
<b>maleic anhydride</b>	Worker	inhalation	long term local effects	/	0.4 mg/m <sup>3</sup>
<b>maleic anhydride</b>	Worker	inhalation	short term local effects	/	0.8 mg/m <sup>3</sup>

## PNEC values

### For product

No information.

### For components

Name	Exposure route	Remark	Value
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	fresh water	/	597.97 mg/L
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	water, intermittent release	/	597.97 mg/L
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	marine water	/	141.26 mg/L
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	water, marine, intermittent release	/	141.26 mg/L
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	fresh water sediment	dry weight	31.33 mg/kg
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	marine water sediment	dry weight	3.13 mg/kg
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	{p:47998}	/	10 mg/m <sup>3</sup>
<b>styrene</b>	fresh water	/	0.028 mg/L
<b>styrene</b>	water, intermittent release	/	0.04 mg/L
<b>styrene</b>	marine water	/	0.014 mg/L
<b>styrene</b>	water treatment plant	/	5 mg/L
<b>styrene</b>	fresh water sediment	dry weight	0.614 mg/kg
<b>styrene</b>	marine water sediment	dry weight	0.307 mg/kg
<b>styrene</b>	soil	dry weight	0.2 mg/kg
<b>maleic anhydride</b>	fresh water	/	0.1 mg/L
<b>maleic anhydride</b>	water, intermittent release	/	0.428 mg/L
<b>maleic anhydride</b>	marine water	/	0.01 mg/L
<b>maleic anhydride</b>	water treatment plant	/	44.6 mg/L

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Name	Exposure route	Remark	Value
<b>maleic anhydride</b>	fresh water sediment	dry weight	0.334 mg/kg
<b>maleic anhydride</b>	marine water sediment	dry weight	0.033 mg/kg
<b>maleic anhydride</b>	soil	dry weight	0.042 mg/kg

## 8.2 Exposure controls

### Appropriate engineering control

#### Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

#### Structural measures to prevent exposure

No information.

#### Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

#### Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

### Personal protective equipment

#### Eye and face protection

Safety glasses with side protection (BS EN ISO 16321-1:2022).

#### Hand protection

Protective gloves (EN ISO 374-1:2016). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

### Appropriate materials

#### Skin protection

Protective antistatic clothing EN 1149 (1:2006, 2:1998 and 3:2004, 5:2008), protective antistatic shoes (EN 20345:2022). At high risk of skin exposure chemical suits (BS EN 13034:2005+A1:2009) and boots may be required (BS EN ISO 20345:2022+A1:2024).

#### Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.

#### Thermal hazards

No information.

### Environmental exposure controls

#### Substance/mixture related measures to prevent exposure

No information.

#### Instruction measures to prevent exposure

No information.

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## Organisational measures to prevent exposure

No information.

## Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Important health, safety and environmental information

Physical state	liquid
Shape	No information.
Colour	white
Odour	No information.
Odour threshold	No information.
Melting/freezing point or softening point	No information.
Boiling point or initial boiling point and boiling range	No information.
Flammability	480 °C
Lower and upper explosion limit	No information.
Flash point	31 °C
Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	Substance/mixture is non-soluble (in water). Does not apply
Viscosity	No information.
Solubility	No information.
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	6 hPa
Density	1.3 kg/L
Relative vapour/gas density	No information.
Particle characteristics	No information.

### 9.2 Other information

#### Information with regard to physical hazard classes

No information.

#### Other safety characteristics

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Weight organic solvents 249 g/l

## Section 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No information.

### 10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3 Possibility of hazardous reactions

Vapours and air can form flammable or explosive mixtures.

### 10.4 Conditions to avoid

Protect from heat, direct sunlight, open fire, sparks.

### 10.5 Incompatible materials

Oxidants.

### 10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

## Section 11: Toxicological information

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

#### (a) Acute toxicity

##### For components

Name	Exposure route	Type	Species	Time	Value	Method	Remark
styrene	oral	LD <sub>50</sub>	rat	/	5000 mg/kg	/	/
styrene	dermal	LD <sub>50</sub>	rat	/	> 2000 mg/kg	OECD 402	/
styrene	inhalation	LC <sub>50</sub>	rat	4 h	11.8 mg/l	/	/
maleic anhydride	oral	LD <sub>50</sub>	rat	/	1090 mg/kg	/	/

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
<b>maleic anhydride</b>	inhalation	LC <sub>50</sub>	rat	1 h	> 4.35 mg/l	/	/
<b>maleic anhydride</b>	oral	LD <sub>50</sub>	rabbit	/	2620 mg/kg	/	/

## Additional information

The product is not classified as acutely toxic.

## (b) Skin corrosion/irritation

### For components

Name	Species	Time	result	Method	Remark
<b>maleic anhydride</b>	rabbit	/	Corrosive.	/	/

## Additional information

The product is not classified as irritating to skin and eyes. Causes skin irritation.

## (c) Serious eye damage/irritation

No information.

## (d) Respiratory or skin sensitisation

### For components

Name	Exposure route	Species	Time	result	Method	Remark
<b>maleic anhydride</b>	dermal	/	/	Sensitizing.	/	/

## Additional information

May cause an allergic skin reaction. The product is not classified as sensitising.

## (e) (Germ cell) mutagenicity

### For components

Name	Type	Species	Time	result	Method	Remark
<b>maleic anhydride</b>	in-vitro mutagenicity	/	/	Negative.	/	/
<b>maleic anhydride</b>	in-vivo mutagenicity	/	/	Negative.	/	/

## (f) Carcinogenicity

### For components

Name	Exposure route	Type	Species	Time	Value	result	Method	Remark
<b>styrene</b>	inhalation (vapours)	NOAEL	rat	/	4.34 mg/l	/	OECD 453	5 days per week, 6 h per day
<b>maleic anhydride</b>	dermal	NOEL	rat	/	100 mg/kg bw/day	/	/	/

## (g) Reproductive toxicity

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## For components

Name	Reproductive toxicity type	Type	Species	Time	Value	result	Method	Remark
<b>styrene</b>	Effect on fertility	NOAEL (paren ts)	rat	/	0.65 - 2.2 mg/L	/	OECD 416	Inhalation (vapour)
<b>styrene</b>	Effect on fertility	NOAEL (F2)	rat	/	0.22 mg/L	/	OECD 416	Inhalation (vapour)
<b>styrene</b>	Developmental toxicity	NOAEL	rat	/	2.6 mg/L	/	/	inhalation
<b>styrene</b>	Teratogenicity	NOAEL	rat	/	2.6 mg/L	/	/	inhalation
<b>styrene</b>	Maternal toxicity	LOAEL	rat	/	1.3 mg/L	/	/	inhalation
<b>maleic anhydride</b>	Reproductive toxicity	NOAEL	rat	/	55 mg/kg	/	two-generation study	/

## Summary of evaluation of the CMR properties

Suspected of damaging the unborn child. The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

## (h) STOT-single exposure

No information.

## Additional information

STOT SE (single exposure): Not classified.

## (i) STOT-repeated exposure

## For components

Name	Exposure route	Type	Species	Time	Exposure	organ	Value	result	Method	Rem
<b>styrene</b>	inhalation (vapours)	NOAEL	rat	13 weeks	sub-acute	/	0.85 mg/L	/	/	6h/d

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Name	Exposure route	Type	Species	Time	Exposure	organ	Value	result	Method	Remark
<b>styrene</b>	inhalation (vapours)	NOAEL	rat	/	sub-chronic	/	mg/L	/	OECD 453	6h/

## Additional information

Causes damage to organs through prolonged or repeated exposure. STOT RE (repeated exposure): Not classified.

## (j) Aspiration hazard

No information.

## Additional information

Aspiration hazard: Not classified.

## Symptoms related to the physical, chemical and toxicological characteristics

No information.

## Interactive effects

No information.

## 11.2 Information on other hazards

### Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

### Other information

No information.

## Section 12: Ecological information

### 12.1 Toxicity

#### Acute (short-term) toxicity

##### For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
<b>styrene</b>	LC <sub>50</sub>	4.02 mg/L	96 h	fish	<i>Pimephales promelas</i>	/	/
<b>styrene</b>	EC <sub>50</sub>	4.7 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	/
<b>styrene</b>	EC <sub>50</sub>	4.9 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	EPA OTS 797.1050	/
<b>styrene</b>	EC <sub>50</sub>	ca. 500 mg/L	30 min	bacteria	/	OECD 209	/



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Name	Type	Value	Exposure time	Species	Organism	Method	Remark
<b>styrene</b>	EC <sub>10</sub>	0.28 mg/L	96 h	algae	<i>Pseudokirchneriella subcapitata</i>	EPA OTS 797.1050	/
<b>maleic anhydride</b>	LC <sub>50</sub>	75 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
<b>maleic anhydride</b>	LC <sub>50</sub>	75 mg/L	96	fish	<i>Oncorhynchus mykiss</i>	/	/
<b>maleic anhydride</b>	EC <sub>50</sub>	42.81 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
<b>maleic anhydride</b>	EC <sub>50</sub>	150 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	/	/
<b>maleic anhydride</b>	EC <sub>10</sub>	44.6 mg/L	18 h	microorganisms	<i>Pseudomonas putida</i>	/	/

## Chronic (long-term) toxicity

### For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
<b>styrene</b>	NOEC	1.01 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	/
<b>maleic anhydride</b>	NOEC	10 mg/l	21 days	crustacea	<i>Daphnia magna</i>	/	/
<b>maleic anhydride</b>	NOEC	11.8 mg/l	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	/	/

## 12.2 Persistence and degradability

### Abiotic degradation, physical- and photo-chemical elimination

No information.

### Biodegradation

#### For components

Name	Type	Rate	Time	Evaluation	Method	Remark
<b>Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)</b>	Water solubility	< 0.1 mg/L	/	/	/	/

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Name	Type	Rate	Time	Evaluation	Method	Remark
<b>styrene</b>	biodegradability	70.9 %	28 days	readily biodegradable	ISO DIN 9408	aerobic, activated sludge
<b>maleic anhydride</b>	biodegradability	> 90 %	/	rapidly biodegradable	OECD 301 B	/

## 12.3 Bioaccumulative potential

### Partition coefficient n-octanol/water (log value)

#### For components

Name	Value	Temperature °C	pH	Concentration	Method
<b>styrene</b>	2.96	/	/	/	/
<b>maleic anhydride</b>	-2.61	/	/	/	/

### Bioconcentration factor (BCF)

#### For components

Name	Species	Organism	Value	Duration	Evaluation	Method	Remark
<b>styrene</b>	BCF	fish	13.5	/	/	/	/
<b>styrene</b>	BCF	/	74	/	/	/	Calculated value

## 12.4 Mobility in soil

### Known or predicted distribution to environmental compartments

No information.

#### Surface tension

No information.

#### Adsorption/Desorption

##### For components

Name	Type	Criterion	Value	Evaluation	Method	Remark
<b>styrene</b>	Soil	log KOC	2.55	/	/	/
<b>styrene</b>	Soil	/	352	/	/	Koc
<b>maleic anhydride</b>	Soil	log KOC	1.63	/	/	/

## 12.5 Results of PBT and vPvB assessment

No evaluation.

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## 12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

## 12.7 Other adverse effects

No information.

## 12.8 Additional information

### For product

Product is not classified as hazardous for environment. Do not allow to reach ground water, water courses or sewage system.

## Section 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product / Packaging disposal

##### Waste chemical

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

##### Waste codes / waste designations according to LoW

No information.

##### Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents. Uncleaned containers should not be perforated, cut or welded. Empty containers represent a fire hazard as they may contain flammable product residues and vapours.

##### Waste codes / waste designations according to LoW

No information.

##### Waste treatment-relevant information

No information.

##### Sewage disposal-relevant information

No information.

##### Other disposal recommendations

No information.

## Section 14: Transport information

ADR/RID	IMDG	IATA	ADN
<b>14.1 UN number or ID number</b>			
UN 1866	UN 1866	UN 1866	UN 1866





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ADR/RID	IMDG	IATA	ADN
<b>14.2 UN proper shipping name</b>			
RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION
<b>14.3 Transport hazard class(es)</b>			
3	3	3	3
			
<b>14.4 Packing group</b>			
III	III	III	III
<b>14.5 Environmental hazards</b>			
NO	NO	NO	NO
<b>14.6 Special precautions for user</b>			
Limited quantities 5 L Packing Instructions P001, IBC03, LP01, R001 Special packing provisions PP1 Transport category 3 Tunnel restriction code (D/E) Classification code F1	Limited quantities 5 L EmS F-E, <u>S-E</u> Flash point 31 °C	Limited Quantity, Packing Instructions (Ltd Qty, Pkg Inst) Y344 Limited Quantity, Maximum Net Quantity/Package (Ltd Qty, Max Net Qty/Pkg) 10 L Packing Instructions (Pkg Inst) 355 Maximum Net Quantity/Package (Max Net Qty/Pkg) 25 L Special provisions A3	Limited quantities 5 L
<b>14.7 Maritime transport in bulk according to IMO instruments</b>			
	Goods may not be carried in bulk in bulk containers, containers or vehicles.		

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## Section 15: Regulatory information

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

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- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

#### Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

EU limit values and category: B(b) 250 g/l. VOC Content: 249 g/l

#### Ingredients according to Regulation (EC) No 648/2004 on detergents

No information.

#### Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

### 15.2 Chemical Safety Assessment

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No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## Section 16: Other information

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#### Indication of changes

9.1 Information on basic physical and chemical properties 14. Transport information

#### Key literature references and sources for data

No information.

#### Abbreviations and acronyms

ATE - Acute Toxicity Estimate

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC

DSD - Dangerous Substances Directive 67/548/EEC

DU - Downstream User

EC - European Community

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ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW - see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC50 - Lethal Concentration to 50 % of a test population  
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern

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UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

**List of relevant H phrases**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

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.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

EUH071 Corrosive to the respiratory tract.