

**SAFETY DATA SHEET** according to Regulation 1907/2006 amended by  
2015/830/EU

Product name: **Silikat resin TYPE Summer comp. B**  
Creation date: **19.10.2017** · Revision: **25.10.2017** · Version: **1**

---

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

---

**1.1. Product identifier**

Product name

**Silikat resin TYPE Summer comp. B**



chemius.net/Un190

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

Relevant identified uses

Two component coating - component B. For professional use only.

Uses advised against

No information.

**1.3. Details of the supplier of the safety data sheet**

Supplier

SANIKOM D.O.O.  
Address: Vrtna ulica 39, 4294 Križe, Slovenia  
Phone: +386(0)51-354-081  
Fax: 0599-50-636  
E-mail: gregor.janc@sanikom.si  
Point of contact for safety info: Gregor Janc

**1.4. Emergency telephone number**

112

+386(0)51-354-081

---

**SECTION 2. HAZARDS IDENTIFICATION**

---

**2.1 Classification of the substance or mixture**

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

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.  
Acute Tox. 4; H332 Harmful if inhaled.  
Resp. Sens. 1; H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
STOT SE 3; H335 May cause respiratory irritation.  
Carc. 2; H351 Suspected of causing cancer.  
STOT RE 2; H373 May cause damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.

# SAFETY DATA SHEET

according to Regulation 1907/2006 amended by

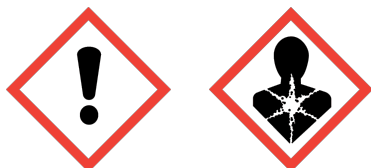
2015/830/EU

Product name: **Silikat resin TYPE Summer comp. B**

Creation date: **19.10.2017** · Revision: **25.10.2017** · Version: **1**

## 2.2 Label elements

### 2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]



Signal word: **Danger**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P285 In case of inadequate ventilation wear respiratory protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

### 2.2.2. Contains:

polymeric MDI (CAS: 9016-87-9)

tris(2-chloro-1-methylethyl) phosphate (CAS: 13674-84-5, EC: 237-158-7)

### 2.2.3. Special provisions

Special hazards are not known or expected.

## 2.3. Other hazards

The substances in the mixture are not classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

For mixtures see 3.2.

# SAFETY DATA SHEET

according to Regulation 1907/2006 amended by

2015/830/EU

Product name: **Silikat resin TYPE Summer comp. B**

Creation date: **19.10.2017** · Revision: **25.10.2017** · Version: **1**

## 3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
polymeric MDI	9016-87-9 - -	>60	Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Irrit. 2; H319 Acute Tox. 4; H332 Resp. Sens. 1; H334 STOT SE 3; H335 Carc. 2; H351 STOT RE 2; H373		-
tris(2-chloro-1-methylethyl) phosphate	13674-84-5 237-158-7 -	>10	Acute Tox. 4; H302		01-2119486772-26
phenol, isopropylated, phosphate (3:1)	68937-41-7 273-066-3 -	<2,5	Repr. 2; H361 STOT RE 2; H373 Aquatic Chronic 2; H411		-
hexamethylene-1,6-diisocyanate homopolymer	28182-81-2 500-060-2 -	≤2	Skin Sens. 1; H317 Acute Tox. 4; H332 STOT SE 3; H335		01-2119488934-20

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General notes

Take off all contaminated clothing immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency.

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. If victim is not breathing give artificial respiration. Seek medical help immediately.

#### Following skin contact

Immediately remove contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If possible, rinse with polyethylene glycol 400 and plenty of water. If symptoms persist seek medical attention. Wash contaminated clothes and shoes before reuse.

#### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Consult a physician immediately!

#### 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

#### Inhalation

Coughing, sneezing, nasal discharge, labored breathing.  
Headache.  
Can cause sensitization.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
Nausea.  
Sore throat.

#### Skin contact

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

# SAFETY DATA SHEET

according to Regulation 1907/2006 amended by

2015/830/EU

Product name: **Silikat resin TYPE Summer comp. B**

Creation date: **19.10.2017** · Revision: **25.10.2017** · Version: **1**

## Eye contact

Redness, tearing, pain.

## Ingestion

Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area.

May cause nausea/vomiting and diarrhea.

May cause abdominal discomfort.

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

Treat symptomatically. Symptoms of poisoning may appear several hours later. Keep under medical supervision for at least 48 hours.

## SECTION 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### 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

#### Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

Hydrogen cyanide (HCN).

Nitrogen oxides (NO<sub>x</sub>). Isocyanates.

### 5.3. Advice for firefighters

#### Protective actions

In case of fire or heating do not breathe fumes/vapours. Prolonged heating can cause an explosion. Cool containers at risk with water spray. If possible remove containers from endangered area.

#### Special protective equipment for firefighters

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

#### Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

#### 6.1.1. For non-emergency personnel

##### **Protective equipment**

Use personal protective equipment (Section 8).

##### **Emergency procedures**

Ensure adequate ventilation. Immediately contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate personnel to safe areas, away from the direction of the wind. Prevent access to unprotected personnel. Prevent access to unauthorised personnel. Avoid contact with skin and eyes. Do not breathe vapour or mist.

#### 6.1.2. For emergency responders

Use personal protective equipment.

# SAFETY DATA SHEET

according to Regulation 1907/2006 amended by

2015/830/EU

Product name: **Silikat resin TYPE Summer comp. B**

Creation date: **19.10.2017** · Revision: **25.10.2017** · Version: **1**

## 6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

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

### 6.3.1. For containment

Stem the spill if this does not pose risks.

### 6.3.2. For cleaning up

Absorb with inert material (sand, flintstone (diatomite soil), universal binder, sawdust). Leave to react for at least 30 minutes. Do not absorb spillage with sawdust or other combustible material. After cleaning, wash residues with plenty of water.

### 6.3.3. Other information

-

## 6.4. Reference to other sections

See also Sections 8 and 13.

# SECTION 7. HANDLING AND STORAGE

## 7.1. Precautions for safe handling

### 7.1.1. Protective measures

#### Measures to prevent fire

Ensure adequate ventilation.

#### Measures to prevent aerosol and dust generation

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

#### Measures to protect the environment

-

### 7.1.2. 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. Avoid contact with skin and eyes. Do not breathe vapours/mist. Prevent concentrations of vapors above the limit values permitted at the workplace. Refer to instructions on label and regulations for safety and health at work. Use personal protective equipment. Regular cleaning of equipment, work area and clothing is recommended.

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

### 7.2.1. Technical measures and storage conditions

Store in accordance with local regulations. Keep in tightly closed container. Keep in cool and well ventilated area. Keep in a dry place. Keep away from incompatible products (see section 10). Keep unauthorized personnel away. Keep away from food, drink and animal feeding stuffs. Keep away from moisture and water.

### 7.2.2. Packaging materials

The original container of producer. Suitable material: steel. Stainless steel. Non suitable packaging material: copper. Copper alloys. Do not keep in galvanised containers.

### 7.2.3. 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. Use appropriate container to avoid environmental contamination.

### 7.2.4. Storage class

-

### 7.2.5. Further information on storage conditions

-

# SAFETY DATA SHEET

according to Regulation 1907/2006 amended by

2015/830/EU

Product name: **Silikat resin TYPE Summer comp. B**

Creation date: **19.10.2017** · Revision: **25.10.2017** · Version: **1**

## 7.3. Specific end use(s)

### Recommendations

-

### Industrial sector specific solutions

-

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

No information.

#### 8.1.2. 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 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

#### 8.1.3. DNEL/DMEL values

##### For components

Name	Type	Exposure route	Exposure frequency	Value	Remark
polymeric MDI (9016-87-9)	Worker	dermal	short term (systemic effects)	50 mg/kg bw/day	
polymeric MDI (9016-87-9)	Worker	inhalation	short term (systemic effects)	0,1 mg/m <sup>3</sup>	
polymeric MDI (9016-87-9)	Worker	dermal	short term (local effects)	28,7 mg/cm <sup>2</sup>	
polymeric MDI (9016-87-9)	Worker	inhalation	short term (local effects)	0,1 mg/m <sup>3</sup>	
polymeric MDI (9016-87-9)	Worker	inhalation	long term (systemic effects)	0,05 mg/m <sup>3</sup>	
polymeric MDI (9016-87-9)	Worker	inhalation	long term (local effects)	0,05 mg/m <sup>3</sup>	

#### 8.1.4. PNEC values

##### For components

Name	Exposure route	Value	Remark
polymeric MDI (9016-87-9)	soil	1 mg/kg	dry weight

### 8.2. Exposure controls

#### 8.2.1. 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. Do not eat, drink or smoke while working. Avoid contact with eyes and skin. Do not breathe vapours/aerosols.

##### 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.

#### 8.2.2. Personal protective equipment

##### Eye and face protection

Safety glasses with side protection (EN 166).

##### Hand protection

Protective gloves (EN 374). Unsuitable material: PVC.

# SAFETY DATA SHEET

according to Regulation 1907/2006 amended by

2015/830/EU

Product name: **Silikat resin TYPE Summer comp. B**

Creation date: **19.10.2017** · Revision: **25.10.2017** · Version: **1**

## Appropriate materials

Material	Thickness	Penetration Time	Remark
Butyl rubber	0,7 mm	> 480 min	
Nitrile	0,4 mm	> 480 min	
chloroprene rubber	0,5 mm	> 480 min	

## Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

## Respiratory protection

In case of insufficient ventilation wear mask with filter ABEK (EN 14387).

## Thermal hazards

-

## 8.2.3. Environmental exposure controls

-

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

-	<b>Physical state:</b>	liquid
-	<b>Colour:</b>	brown
-	<b>Odour:</b>	characteristic

### Important health, safety and environmental information

-	<b>pH</b>	No information.
-	<b>Melting point/freezing point</b>	No information.
-	<b>Initial boiling point/boiling range</b>	No information.
-	<b>Flash point</b>	> 200 °C (MDI)
-	<b>Evaporation rate</b>	No information.
-	<b>Flammability (solid, gas)</b>	No information.
-	<b>Explosion limits (vol%)</b>	No information.
-	<b>Vapour pressure</b>	1,0E-5 hPa at 20 °C
-	<b>Vapour density</b>	No information.
-	<b>Density</b>	<b>Density:</b> 1,22 – 1,26 g/cm <sup>3</sup> at 25 °C
-	<b>Solubility</b>	No information.
-	<b>Partition coefficient</b>	No information.
-	<b>Auto-ignition temperature</b>	No information.
-	<b>Decomposition temperature</b>	No information.
-	<b>Viscosity</b>	<b>Dynamic:</b> 310 – 370 mPas at 20 °C
-	<b>Explosive properties</b>	Product is not explosive.
-	<b>Oxidising properties</b>	No information.

### 9.2. Other information

-	<b>Remarks:</b>	
---	-----------------	--

# SAFETY DATA SHEET

according to Regulation 1907/2006 amended by

2015/830/EU

Product name: **Silikat resin TYPE Summer comp. B**

Creation date: **19.10.2017** · Revision: **25.10.2017** · Version: **1**

## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

Reacts with water, acids, alcohols, amines, bases and oxidants.

### 10.2. Chemical stability

MDI reacts quickly with water to form predominantly solid, insoluble polyureas.

### 10.3. Possibility of hazardous reactions

Product reacts slowly with water, releasing CO<sub>2</sub>, which can cause overpressure in closed containers. Danger of explosion..  
Acids, alcohols, amines, bases and oxidants cause fire and explosion hazard.

### 10.4. Conditions to avoid

High temperatures. Keep away from moisture. Avoid light.

### 10.5. Incompatible materials

Alcohols.  
Amines.  
Water.  
Acids. Bases.

### 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 toxicological effects

#### (a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
polymeric MDI (9016-87-9)	inhalation	LC <sub>50</sub>	rat	1 h	> 2,24 mg/l	OECD 403	4,4'-methylenediphenyl diisocyanate
polymeric MDI (9016-87-9)	dermal	LD <sub>50</sub>	rabbit	24 h	> 9400 mg/kg bw	OECD 402	4,4'-methylenediphenyl diisocyanate
tris(2-chloro-1-methylethyl) phosphate (13674-84-5)	oral	LD <sub>50</sub>	rat		632 mg/kg		
tris(2-chloro-1-methylethyl) phosphate (13674-84-5)	inhalation (dusts/mists)	LC <sub>50</sub>	rat	4 h	> 7 mg/l	OECD 403/OECD 433	

**Additional information:** Harmful if inhaled.

#### (b) Skin corrosion/irritation

Name	Species	Time	Result	Method	Remark
polymeric MDI (9016-87-9)	rabbit	14 days	Irritating.	OECD 404	4,4'-methylenediphenyl diisocyanate

**Additional information:** Causes skin irritation.

#### (c) Serious eye damage/irritation

Name	Species	Time	Result	Method	Remark
polymeric MDI (9016-87-9)	rabbit	21 days	No irritant effect.	OECD 405	4,4'-methylenediphenyl diisocyanate

**Additional information:** Causes serious eye irritation.



**SAFETY DATA SHEET** according to Regulation 1907/2006 amended by 2015/830/EU

Product name: **Silikat resin TYPE Summer comp. B**  
 Creation date: **19.10.2017** · Revision: **25.10.2017** · Version: **1**

(d) Respiratory or skin sensitisation

Name	Exposure route	Species	Time	Result	Method	Remark
polymeric MDI (9016-87-9)	dermal	mouse		Sensitizing.	OECD 429	4,4'-methylenediphenyl diisocyanate
polymeric MDI (9016-87-9)	inhalation	guinea pig		Sensitizing.		4,4'-methylenediphenyl diisocyanate

**Additional information:** May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

Name	Exposure route	Type	Species	Time	Value	Result	Method	Remark
polymeric MDI (9016-87-9)	inhalation	NOAEC	rat	2 years	1 mg/m <sup>3</sup>			5 days per week, 6 h per day; 4,4'-methylenediphenyl diisocyanate
polymeric MDI (9016-87-9)	inhalation	LOAEC	rat	2 years	6 mg/m <sup>3</sup>			5 days per week, 6 h per day; 4,4'-methylenediphenyl diisocyanate

(g) Reproductive toxicity

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
polymeric MDI (9016-87-9)	Developmental toxicity	NOAEL	rat (inhalation)	10 days	4 mg/m <sup>3</sup>			4,4'-methylenediphenyl diisocyanate
polymeric MDI (9016-87-9)	Maternal toxicity	NOAEL	rat (inhalation)	10 days	4 mg/m <sup>3</sup>			4,4'-methylenediphenyl diisocyanate

Summary of evaluation of the CMR properties

Suspected of causing cancer.

(h) STOT-single exposure

**Additional information:** STOT - single exposure: May cause respiratory irritation.

(i) STOT-repeated exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
polymeric MDI (9016-87-9)	inhalation	LOAEC	rat	2 years	lungs	1 mg/m <sup>3</sup>		OECD 453	6 h per day, 5 days per week; 4,4'-methylenediphenyl diisocyanate

**Additional information:** May cause damage to organs through prolonged or repeated exposure.

(j) Aspiration hazard

No information.

**SAFETY DATA SHEET** according to Regulation 1907/2006 amended by 2015/830/EU

Product name: **Silikat resin TYPE Summer comp. B**  
 Creation date: **19.10.2017** · Revision: **25.10.2017** · Version: **1**

**SECTION 12. ECOLOGICAL INFORMATION**

**12.1. Toxicity**

12.1.1. Acute (short-term) toxicity

**For components**

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
polymeric MDI (9016-87-9)	LC <sub>50</sub>	56,2 mg/L	96 h	fish	<i>Brachydanio rerio</i>	OECD 203	4,4'-methylenediphenyl diisocyanate
	EC <sub>50</sub>	> 1000 mg/L	24 h	crustacea	<i>Daphnia magna</i>	OECD 202	4,4'-methylenediphenyl diisocyanate
	EC <sub>50</sub>	> 1640 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>	OECD 201	4,4'-methylenediphenyl diisocyanate
	EC <sub>50</sub>	> 100 mg/L	3 h	microorganisms	Activated sludge	OECD 209	4,4'-methylenediphenyl diisocyanate
	LC <sub>50</sub>	> 1000 mg/kg soil dw	14 days	Soil macroorganisms	<i>Eisenia fetida</i>	OECD TG 207	4,4'-methylenediphenyl diisocyanate
	EC <sub>50</sub>	> 1000 mg/kg soil dw	14 days	terrestrial plants	<i>Avena sativa</i>	OECD 208	4,4'-methylenediphenyl diisocyanate
	EC <sub>50</sub>	> 1000 mg/kg soil dw	14 days	terrestrial plants	<i>Lactuca sativa</i>	OECD 208	4,4'-methylenediphenyl diisocyanate
tris(2-chloro-1-methylethyl) phosphate (13674-84-5)	LC <sub>50</sub>	56,2 mg/L	96 h	fish			
	EC <sub>50</sub>	131 mg/L	48 h	crustacea	<i>Daphnia magna</i>		
phenol, isopropylated, phosphate (3:1) (68937-41-7)	LC <sub>50</sub>	1,6 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>		
	LC <sub>50</sub>	10,8 mg/L	96 h	fish	<i>Pimephales promelas</i>		

12.1.2. Chronic (long-term) toxicity

**For components**

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
polymeric MDI (9016-87-9)	NOEC	≥ 10 mg/l	21 days	crustaceans	<i>Daphnia magna</i>	OECD 211	4,4'-methylenediphenyl diisocyanate

**12.2. Persistence and degradability**

12.2.1. Abiotic degradation, physical- and photo-chemical elimination

**For components**

Substance (CAS Nr.)	Environment	Type / Method	Half Time	Evaluation	Method	Remark
polymeric MDI (9016-87-9)	Air	photodegradation	1 days	50%		4,4'-methylenediphenyl diisocyanate
polymeric MDI (9016-87-9)	water	hydrolysis	20 h	50%		25°C; 4,4'-methylenediphenyl diisocyanate

# SAFETY DATA SHEET

according to Regulation 1907/2006 amended by

2015/830/EU

Product name: **Silikat resin TYPE Summer comp. B**

Creation date: **19.10.2017** · Revision: **25.10.2017** · Version: **1**

## 12.2.2. Biodegradation

### For components

Substance (CAS Nr.)	Type	Rate	Time	Evaluation	Method	Remark
polymeric MDI (9016-87-9)	Biodegradation in water		28 days	Non-biodegradable	OECD 302 C	4,4'-methylenediphenyl diisocyanate

## 12.3. Bioaccumulative potential

### 12.3.1. Partition coefficient

No information.

### 12.3.2. Bioconcentration factor (BCF)

#### For components

Substance (CAS Nr.)	species	Organism	Value	Duration	Evaluation	Method	Remark
polymeric MDI (9016-87-9)	BCF	<i>Cyprinus carpio</i>	200	28 days		OECD 305 C	4,4'-methylenediphenyl diisocyanate

## 12.4. Mobility in soil

### 12.4.1. Known or predicted distribution to environmental compartments

No information.

### 12.4.2. Surface tension

No information.

### 12.4.3. Adsorption/Desorption

No information.

## 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

## 12.6. Other adverse effects

No information.

## 12.7. Additional information

### For product

Do not allow to reach ground water, water courses or sewage system.

The product in the contact with water changes in solid, insoluble substance (polyurea). At the same time CO<sub>2</sub> is being released.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### 13.1.1. Product / Packaging disposal

##### Waste chemical

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

08 05 01\* - waste isocyanates

##### Packaging

Deliver completely emptied containers to approved waste disposal authorities.

#### 13.1.2. Waste treatment-relevant information

-

#### 13.1.3. Sewage disposal-relevant information

-

# SAFETY DATA SHEET

according to Regulation 1907/2006 amended by 2015/830/EU

Product name: **Silikat resin TYPE Summer comp. B**  
Creation date: **19.10.2017** · Revision: **25.10.2017** · Version: **1**

## 13.1.4. Other disposal recommendations

-

## SECTION 14. TRANSPORT INFORMATION

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

ADR, RID, IMDG, ADN, IATA: Not dangerous according to transport regulations.

### 14.3. Transport hazard class(es)

Not applicable.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

NO.

### 14.6. Special precautions for user

Not applicable.

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

Not applicable.

## SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

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

Not applicable.

### 15.2. Chemical Safety Assessment

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

## SECTION 16. OTHER INFORMATION

### Indication of changes

-

### 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

# SAFETY DATA SHEET

according to Regulation 1907/2006 amended by

2015/830/EU

Product name: **Silikat resin TYPE Summer comp. B**

Creation date: **19.10.2017** · Revision: **25.10.2017** · Version: **1**

---

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  
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  
LC<sub>50</sub> - Lethal Concentration to 50 % of a test population  
LD<sub>50</sub> - 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  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

**SAFETY DATA SHEET** according to Regulation 1907/2006 amended by 2015/830/EU

Product name: **Silikat resin TYPE Summer comp. B**  
Creation date: **19.10.2017** · Revision: **25.10.2017** · Version: **1**

Key literature references and sources for data

-

List of relevant H phrases

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer .
- H361 Suspected of damaging fertility or the unborn child .
- H373 May cause damage to organs through prolonged or repeated exposure .
- H411 Toxic to aquatic life with long lasting effects.



- Provided correct labelling of the product
- Compliance with the local legislation
- Provided correct classification of the product
- Provided adequate transport data

© BENS Consulting | [www.bens-consulting.com](http://www.bens-consulting.com)

The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.