

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**TrueSil-X50**

Revision date: 16.12.2024

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

TrueSil-X50

**Product code:**

TS50X

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

Resins (prepolymers) (Intermediate (precursor), 3D-Printing process)

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

Company name: Spectroplast AG  
Street: Rütistrasse 16  
Place: CH-8952 Schlieren  
Telephone: +41 44 576 48 70  
E-mail (Contact person): info@spectroplast.com  
Internet: spectroplast.com

**1.4. Emergency telephone**

+41 44 576 48 70 (Only available during office hours.)

**number:****SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

**2.2. Label elements****Regulation (EC) No 1272/2008****Special labelling of certain mixtures**

EUH208 Contains Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate. May produce an allergic reaction.  
EUH210 Safety data sheet available on request.

**2.3. Other hazards**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Silicone polymer

**Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
84434-11-7	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate			< 1 %
	282-810-6		01-2119987994-10	
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411			

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

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**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
84434-11-7	282-810-6	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	< 1 %
		oral: LD50 = > 5000 mg/kg	

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.

**After inhalation**

Provide fresh air. If experiencing respiratory symptoms: Call a doctor.

**After contact with skin**

Wash with plenty of water and soap. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink 1 glass of water. When in doubt or if symptoms are observed, get medical advice.

**4.2. Most important symptoms and effects, both acute and delayed**

No information available.

**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**

Co-ordinate fire-fighting measures to the fire surroundings.

**5.2. Special hazards arising from the substance or mixture**

Non-flammable.

In case of fire may be liberated: Pyrolysis products, toxic

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Evacuate area. Avoid dust formation. Do not breathe dust.

**For non-emergency personnel**

Use personal protection equipment.

**For emergency responders**

Wear personal protection equipment (refer to section 8).

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**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****For containment**

Stop leak if safe to do so. Cover drains.

**For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Other information**

Clean contaminated articles and floor according to the environmental legislation.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

Use personal protection equipment.

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Store in a well-ventilated place. Store in a dry place.

**Hints on joint storage**

Keep away from food, drink and animal feedingstuffs.

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

Resins (prepolymers) (Intermediate (precursor), 3D-Printing process)

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
13463-67-7	Titanium dioxide, respirable dust	-	4		TWA (8 h)	
13463-67-7	Titanium dioxide, total inhalable dust	-	10		TWA (8 h)	

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## DNEL/DMEL values

CAS No	Substance			
DNEL type	Exposure route		Effect	Value
13463-67-7	titanium dioxide (> 10 µm)			
Worker DNEL, long-term	inhalation		local	0,170 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation		local	0,028 mg/m <sup>3</sup>

## 8.2. Exposure controls



## Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

## Individual protection measures, such as personal protective equipment

## Eye/face protection

Use eye protection according to EN 166.

## Hand protection

Wear suitable gloves tested to EN374.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

## Skin protection

Wear suitable protective clothing.

## Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Respiratory protection necessary at: dust formation, Treatment by heating (Thermal decomposition)

## Thermal hazards

No information available.

## Environmental exposure controls

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	white	
Odour:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Flammability:		Non-flammable.
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not determined
Auto-ignition temperature:		not determined

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Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / kinematic:	not determined
Water solubility:	practically insoluble
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density:	not determined
Relative vapour density:	not determined
Particle characteristics:	not applicable

**9.2. Other information**

No information available.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4. Conditions to avoid**

No information available.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

In case of fire may be liberated: Pyrolysis products, toxic

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

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

**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
84434-11-7	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate				
	oral	LD50 > 5000 mg/kg	Rat	ECHA	OECD 401

**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

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

Contains Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate. May produce an allergic reaction.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

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

**STOT-single exposure**

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

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**Information on likely routes of exposure**

oral, Skin contact, Eye contact, Inhalation.

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**SECTION 12: Ecological information****12.1. Toxicity**

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

The product is not: Ecotoxic.

**12.2. Persistence and degradability**

The product has not been tested.

**12.3. Bioaccumulative potential**

The product has not been tested.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
84434-11-7	Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	2,91

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No information available.

**Further information**

Avoid release to the environment.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

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<b><u>14.1. UN number or ID number:</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of these transport regulations.
<b>Inland waterways transport (ADN)</b>	
<b><u>14.1. UN number or ID number:</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of these transport regulations.
<b>Marine transport (IMDG)</b>	
<b><u>14.1. UN number or ID number:</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of this transport regulation.
<b>Air transport (ICAO-TI/IATA-DGR)</b>	
<b><u>14.1. UN number or ID number:</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.2. UN proper shipping name:</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.3. Transport hazard class(es):</u></b>	No dangerous good in sense of these transport regulations.
<b><u>14.4. Packing group:</u></b>	No dangerous good in sense of this transport regulation.
<b><u>14.5. Environmental hazards</u></b>	
ENVIRONMENTALLY HAZARDOUS:	No
<b><u>14.6. Special precautions for user</u></b>	
No information available.	
<b><u>14.7. Maritime transport in bulk according to IMO instruments</u></b>	
not applicable	

## SECTION 15: Regulatory information

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

#### **EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

#### **National regulatory information**

Water hazard class (D): 2 - obviously hazardous to water

#### **Additional information**

Observe in addition any national regulations!

### **15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

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**Abbreviations and acronyms**

Skin Sens: Skin sensitisation  
Aquatic Chronic: Chronic aquatic hazard  
CAS: Chemical Abstracts Service  
CLP: Classification, Labelling and Packaging  
EU: European Union  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
REACH: Registration, Evaluation and Authorization of Chemicals  
UN: United Nations  
PBT: Persistent, Bioaccumulative, Toxic  
SVHC: Substance of Very High Concern  
vPvB: very Persistent, very Bioaccumulative  
ATE: Acute Toxicity Estimates  
BCF: Bio-Concentration Factor  
DMEL: Derived Minimal Effect Level  
DNEL: Derived No Effect Level  
PNEC: Predicted No Effect Concentration  
VOC: Volatile Organic Compounds  
DIN: Deutsches Institut für Normung e.V. (German Institute for Standardization)  
EN: European Standard  
ISO: International Organization for Standardization  
IUCLID: International Uniform Chemical Information Database  
LC50: Lethal Concentration, 50 %  
LD50: Lethal Dose, 50 %  
LL50: Lethal Loading, 50 %  
OECD: Organisation for Economic Co-operation and Development  
EC50: Effective Concentration 50 %  
M-Faktor: Multiplication Factor  
EL50: Effect Loading, 50 %  
ErC50: Effective Concentration 50 %, growth rate  
M-Faktor: Multiplication Factor  
NOEC: No Observed Effect Concentration  
ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)  
ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
DGR: Dangerous Goods Regulations  
EmS: Emergency Schedules  
IATA: International Air Transport Association  
IBC: Intermediate Bulk Container  
ICAO: International Civil Aviation Organization  
IE: Industrial Emissions  
IMDG: International Maritime Code for Dangerous Goods  
LQ: Limited Quantity  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
MFAG: Medical First Aid Guide  
RID: Regulations concerning the International carriage of Dangerous goods by rail  
TI: Technical Instructions

**Key literature references and sources for data**

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). (v.1.2, 2013)

**Relevant H and EUH statements (number and full text)**

H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.



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EUH208 Contains Ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*