

## Safety Data Sheet

### MULTILIGHT

Safety Data Sheet dated 13/04/2023 version 4



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

### 1.1. Product identifier

Mixture identification:

Trade name: MULTILIGHT

Trade code: L0050331

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

Recommended use: Coatings and paints, thinners, paint removers

Thick dual compound putty

Fluid pigmented dispersion

Professional uses

Uses advised against: N.A.

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

Company: Lechler SpA - Via Cecilio, 17 - 22100 Como - CO - Italy

Telephone: +39031586111

First Email: safety@lechler.eu

### 1.4. Emergency telephone number

UNITED KINGDOM: Emergency Number 0044 1606738600 - This telephone number is available during office hours only (8.45-16.45).

UNITED STATES OF AMERICA: Emergency Contact: Lechler SPA -Tel. +39-031-586301 (8.00-18.00).

## SECTION 2: Hazards identification



### 2.1. Classification of the substance or mixture

#### Regulation (EC) n. 1272/2008 (CLP)

Flam. Liq. 3 Flammable liquid and vapour.

Skin Irrit. 2 Causes skin irritation.

Eye Irrit. 2 Causes serious eye irritation.

Skin Sens. 1A May cause an allergic skin reaction.

Repr. 2 Suspected of damaging fertility or the unborn child.

STOT SE 3 May cause respiratory irritation.

STOT RE 1 Causes damage to organs through prolonged or repeated exposure.

DECL10 This titanium dioxide-containing product is not classified as carcinogen by inhalation because it does not meet the criteria stated in Note 10, Annex VI of Regulation (EC) 1272/2008.

Note 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  $\leq 10 \mu\text{m}$ .

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

#### Regulation (EC) No 1272/2008 (CLP):

#### Hazard pictograms and Signal Word



Danger

Hazard statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.

Special Provisions:

EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
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Contains

maleic anhydride  
styrene

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

Results of PBT and vPvB assessment Not a PBT, vPvB substance as per the criteria of the REACH Regulation.  
Endocrine disrupting properties-Toxicity The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Endocrine disrupting properties-Ecotoxicity The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: MULTILIGHT

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
≥40 - ≤50 %	Talc (Mg3H2(SiO3)4)	CAS:14807-96-6 EC:238-877-9	Substance with a Union workplace exposure limit.	
≥20 - ≤25 %	styrene	CAS:100-42-5 EC:202-851-5 Index:601-026-00-0	Flam. Liq. 3, H226; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; STOT RE 1, H372; Asp. Tox. 1, H304; Aquatic Chronic 3, H412; Repr. 2, H361	01-2119457861-32
≥7 - ≤10 %	titanium dioxide	CAS:13463-67-7 EC:236-675-5 Index:022-006-00-2		01-2119489379-17
< 0.1 %	maleic anhydride	CAS:108-31-6 EC:203-571-6 Index:607-096-00-9	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372, EUH071	01-2119472428-31
Specific Concentration Limits: C ≥ 0.001%: Skin Sens. 1A H317				

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## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

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

Eye irritation

Eye damages

Skin Irritation

Erythema

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media:

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

### **5.3. Advice for firefighters**

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## **SECTION 6: Accidental release measures**

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

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

### **6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

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

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

### **6.4. Reference to other sections**

See also section 8 and 13

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Exercise the greatest care when handling or opening the container.
- Use localized ventilation system.
- Do not eat or drink while working.
- See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

- Always keep in a well ventilated place.
- Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.
- Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

- None in particular.

Instructions as regards storage premises:

- Cool and adequately ventilated.

7.3. Specific end use(s)

Recommendation(s)

- None in particular

Industrial sector specific solutions:

- None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
Talc (Mg3H2(SiO3)4) CAS: 14807-96-6	ACGIH		Long Term: 2 mg/m3 Containing no asbestos fibers\$ E,R, A4 - Pulm fibrosis, pulm func
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 1 mg/m3 Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.
	EU		Long Term: 0.1 mg/m3 2004/37/EC
	EU		Carcinogens or mutagens
styrene CAS: 100-42-5	EU		Respirable dust
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 430 mg/m3 - 100 ppm; Short Term: 1080 mg/m3 - 250 ppm
titanium dioxide CAS: 13463-67-7	ACGIH		Long Term: 10 ppm; Short Term: 20 ppm OTO, A3, BEI - CNS and hearing impair, URT irr, peripheral neuropathy, visual disorders
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 10 mg/m3 Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.
	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 4 mg/m3 Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.
	ACGIH		Long Term: 0.2 mg/m3 Nanoscale particles; R ; A3 - LRT irr, pneumoconiosis
	ACGIH		Long Term: 2.5 mg/m3 Finescale particles; R ; A3 - LRT irr, pneumoconiosis

maleic anhydride CAS: 108-31-6	EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 1 mg/m <sup>3</sup> ; Short Term: 3 mg/m <sup>3</sup> Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific
	ACGIH		Long Term: 0.01 mg/m <sup>3</sup> IFV, DSEN, RSEN, A4 - Resp sens

### Biological limit values

styrene CAS: 100-42-5	<p>Biological Indicator: mandelic acid; Sampling Period: End of turn Value: 800 mg/g Creatinine; Medium: Urine Remark: Argentina. Biological Exposure Indices</p> <p>Biological Indicator: mandelic acid; Sampling Period: Before next shift Value: 300 mg/g Creatinine; Medium: Urine Remark: Argentina. Biological Exposure Indices</p> <p>Biological Indicator: phenyl glycolic acid; Sampling Period: End of turn Value: 240 mg/g Creatinine; Medium: Urine Remark: Argentina. Biological Exposure Indices</p> <p>Biological Indicator: phenyl glycolic acid; Sampling Period: Before next shift Value: 100 mg/g Creatinine; Medium: Urine Remark: Argentina. Biological Exposure Indices</p> <p>Biological Indicator: styrene; Sampling Period: End of turn Value: 0.55 mg/L; Medium: Blood Remark: Argentina. Biological Exposure Indices</p> <p>Biological Indicator: styrene; Sampling Period: Before next shift Value: 0.02 mg/L; Medium: Blood Remark: Argentina. Biological Exposure Indices</p> <p>Biological Indicator: mandelic acid; Sampling Period: End of last day of the working day (recommended to avoid the first day of the week) Value: 8 g/g creatinine; Medium: Urine Remark: Brazil. NR7. Parameters for Biological Control of Occupational Exposure to Some Chemical Agents</p> <p>Biological Indicator: phenyl glyoxylic acid; Sampling Period: End of last day of the working day (recommended to avoid the first day of the week) Value: 240 mg/g Creatinine; Medium: Urine Remark: Brazil. NR7. Parameters for Biological Control of Occupational Exposure to Some Chemical Agents</p> <p>Biological Indicator: total mandelic acid plus phenylglyoxylic acid; Sampling Period: In case of long-term exposure: after more than one shift Value: 600 mg/g Creatinine; Medium: Urine Remark: Bulgaria. Biological limit values</p> <p>Biological Indicator: mandelic acid; Sampling Period: End of turn Value: 800 mg/g Creatinine; Medium: Urine Remark: Chile. Biological Limit Values</p> <p>Biological Indicator: phenyl glyoxylic acid; Sampling Period: End of turn Value: 240 mg/g Creatinine; Medium: Urine Remark: Chile. Biological Limit Values</p> <p>Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: End of turn Value: 295 Millimoles per mole Creatinine; Medium: Urine Remark: China. Biological Occupational Exposure Limits for 15 chemicals.</p> <p>Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: End of turn Value: 400 mg/g Creatinine; Medium: Urine Remark: China. Biological Occupational Exposure Limits for 15 chemicals.</p> <p>Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: Before next shift Value: 120 Millimoles per mole Creatinine; Medium: Urine Remark: China. Biological Occupational Exposure Limits for 15 chemicals.</p> <p>Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: Before next shift Value: 160 mg/g Creatinine; Medium: Urine Remark: China. Biological Occupational Exposure Limits for 15 chemicals.</p> <p>Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: End of turn Value: 400 mg/g Creatinine; Medium: Urine Remark: Maximum allowable occupational exposure limits in the workplace - Table 3. Adopted Biological Exposu</p>		
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Biological Indicator: Styrene; Sampling Period: End of turn  
Value: 40 µg/L; Medium: Urine  
Remark: Maximum allowable occupational exposure limits in the workplace - Table 3. Adopted Biological Exposu

Biological Indicator: styrene; Sampling Period: 16 Hours after the end of work  
Value: 19 micromol per litre; Medium: Blood  
Remark: Croatia. Biological Exposure Limits

Biological Indicator: styrene; Sampling Period: 16 Hours after the end of work  
Value: 20 µg/L; Medium: Blood  
Remark: Croatia. Biological Exposure Limits

Biological Indicator: mandelic acid; Sampling Period: End of turn  
Value: 1 g/g creatinine; Medium: Urine  
Remark: Croatia. Biological Exposure Limits

Biological Indicator: mandelic acid; Sampling Period: End of turn  
Value: 74 mol/mol creatinine; Medium: Urine  
Remark: Croatia. Biological Exposure Limits

Biological Indicator: phenyl glyoxylic acid; Sampling Period: End of turn  
Value: 240 mg/g Creatinine; Medium: Urine  
Remark: Croatia. Biological Exposure Limits

Biological Indicator: phenyl glyoxylic acid; Sampling Period: End of turn  
Value: 18 mol/mol creatinine; Medium: Urine  
Remark: Croatia. Biological Exposure Limits

Biological Indicator: mandelic acid + phenyl glyoxylic acid; Sampling Period: during long-term exposure in the middle of the work week  
Value: 600 mg/g Creatinine; Medium: Urine  
Remark: Croatia. Biological Exposure Limits

Biological Indicator: mandelic acid; Sampling Period: End of turn  
Value: 400 mg/g Creatinine; Medium: Urine  
Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: mandelic acid; Sampling Period: End of turn  
Value: 300 micromoles per millimole creatinine; Medium: Urine  
Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: mandelic + phenylglyoxilic acid; Sampling Period: End of turn  
Value: 600 mg/g Creatinine; Medium: Urine  
Remark: Czech Republic. Biological Exposure Indices

Biological Indicator: MAPGA; Sampling Period: Morning after working day  
Value: 1.2 mg/L; Medium: Urine  
Remark: Finland. Biological limit values

Biological Indicator: mandelic acid + phenylglyoxylic acid; Sampling Period: Immediately after exposure or after working hours  
Value: 600 mg/g Creatinine; Medium: Urine  
Remark: TRGS 903 - Biological limit values

Biological Indicator: mandelic acid; Sampling Period: FSL  
Value: 1000 mg/g Creatinine; Medium: Urine  
Remark: Hungary. Permissible limit values of biological exposure (effect) indices

Biological Indicator: mandelic acid; Sampling Period: After shift  
Value: 740 micromoles per millimole creatinine; Medium: Urine  
Remark: Hungary. Permissible limit values of biological exposure (effect) indices

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: FSL  
Value: 400 mg/g Creatinine; Medium: Urine  
Remark: Israel. Safety at Work Regulations - Annex III Biological Exposure Indices

Biological Indicator: Mandelic acid + Phenylglyoxylic acid; Sampling Period: End of turn; End of working week  
Value: 430 mg/L; Medium: Urine  
Remark: Occupational exposure limits based on biological monitoring (JSOH).

Biological Indicator: Styrene; Sampling Period: End of turn; End of working week  
Value: 0.2 mg/L; Medium: Blood  
Remark: Occupational exposure limits based on biological monitoring (JSOH).

Biological Indicator: Mandelic acid; Sampling Period: End of turn  
Value: 800 mg/g Creatinine; Medium: Urine  
Remark: Kenya. Occupational Safety and Health Act (CAP.514), Schedule I, Table 3 Biological Exposure Limits

Biological Indicator: Mandelic acid; Sampling Period: Before next shift  
Value: 300 mg/g Creatinine; Medium: Urine  
Remark: Kenya. Occupational Safety and Health Act (CAP.514), Schedule I, Table 3 Biological Exposure Limits

Biological Indicator: Phenylglyoxylic acid; Sampling Period: End of turn  
Value: 240 mg/g Creatinine; Medium: Urine  
Remark: Kenya. Occupational Safety and Health Act (CAP.514), Schedule I, Table 3 Biological Exposure Limits

Biological Indicator: Phenylglyoxylic acid; Sampling Period: Before next shift  
Value: 100 mg/g Creatinine; Medium: Urine  
Remark: Kenya. Occupational Safety and Health Act (CAP.514), Schedule I, Table 3 Biological Exposure Limits

Biological Indicator: Styrene; Sampling Period: End of turn  
Value: 0.55 mg/L; Medium: venous blood  
Remark: Kenya. Occupational Safety and Health Act (CAP.514), Schedule I, Table 3 Biological Exposure Limits

Biological Indicator: Styrene; Sampling Period: Before next shift  
Value: 0.02 mg/L; Medium: venous blood  
Remark: Kenya. Occupational Safety and Health Act (CAP.514), Schedule I, Table 3 Biological Exposure Limits

Biological Indicator: mandelic acid; Sampling Period: End of turn  
Value: 8 g/g creatinine; Medium: Urine  
Remark: Latvia. Biological Exposure Indices

Biological Indicator: styrene; Sampling Period: End of turn  
Value: 0.55 mg/L; Medium: Blood  
Remark: Latvia. Biological Exposure Indices

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: End of turn  
Value: 400 mg/g Creatinine; Medium: Urine  
Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for work

Biological Indicator: Styrene; Sampling Period: End of turn  
Value: 0.2 mg/L; Medium: venous blood  
Remark: Official Mexican Norm NOM-047-SSA1-2011, Environmental Health - Biological exposure indices for work

Biological Indicator: Mandelic acid; Sampling Period: End of turn  
Value: 1 Millimoles per liter; Medium: Urine  
Remark: New Zealand. Biological Exposure Indices

Biological Indicator: Sum of mandelic acid and phenyl glyoxylic acid; Sampling Period: End of turn  
Value: 400 mg/g Creatinine; Medium: Urine  
Remark: Portuguese Norm 1796 - Biological Exposure Indices

Biological Indicator: Styrene; Sampling Period: End of turn  
Value: 0.2 mg/L; Medium: venous blood  
Remark: Portuguese Norm 1796 - Biological Exposure Indices

Biological Indicator: mandelic acid; Sampling Period: End of turn  
Value: 800 mg/g Creatinine; Medium: Urine  
Remark: Romania. Biological limit values

Biological Indicator: mandelic acid; Sampling Period: Beginning of next shift  
Value: 300 mg/g Creatinine; Medium: Urine  
Remark: Romania. Biological limit values

Biological Indicator: phenylglyoxalic acid; Sampling Period: End of turn  
Value: 100 mg/g Creatinine; Medium: Urine  
Remark: Romania. Biological limit values

Biological Indicator: styrene; Sampling Period: End of turn  
Value: 0.55 mg/L; Medium: Blood  
Remark: Romania. Biological limit values

Biological Indicator: styrene; Sampling Period: Beginning of next shift  
Value: 0.02 mg/L; Medium: Blood  
Remark: Romania. Biological limit values

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: End of turn  
Value: 901 mg/L; Medium: Urine  
Remark: Slovakia. Biological Limit Values

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: In case of long-term exposure:

after more than one shift  
Value: 5960 micromol per litre; Medium: Urine  
Remark: Slovakia. Biological Limit Values

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: End of turn  
Value: 600 mg/g Creatinine; Medium: Urine  
Remark: Slovakia. Biological Limit Values

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: In case of long-term exposure:  
after more than one shift  
Value: 449 micromoles per millimole creatinine; Medium: Urine  
Remark: Slovakia. Biological Limit Values

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: End of turn  
Value: 600 mg/g Creatinine; Medium: Urine  
Remark: Slovenia. BAT-values

Biological Indicator: Mandelic acid; Sampling Period: End of turn  
Value: 800 mg/g Creatinine; Medium: Urine  
Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.

Biological Indicator: Mandelic acid; Sampling Period: Before next shift  
Value: 300 mg/g Creatinine; Medium: Urine  
Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.

Biological Indicator: Phenolglyoxylic acid; Sampling Period: End of turn  
Value: 240 mg/g Creatinine; Medium: Urine  
Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.

Biological Indicator: Phenolglyoxylic acid; Sampling Period: Before next shift  
Value: 100 mg/g Creatinine; Medium: Urine  
Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.

Biological Indicator: Styrene; Sampling Period: End of turn  
Value: 0.55 mg/L; Medium: venous blood  
Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.

Biological Indicator: Styrene; Sampling Period: Before next shift  
Value: 0.02 mg/L; Medium: venous blood  
Remark: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: End of workday  
Value: 400 mg/g Creatinine; Medium: Urine  
Remark: Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values

Biological Indicator: styrene; Sampling Period: End of workday  
Value: 0.2 mg/L; Medium: venous blood  
Remark: Occupational Exposure Limits for Chemical Agents in Spain - Biological Exposure Values

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: Immediately after exposure or  
after working hours  
Value: 600 mg/g Creatinine; Medium: Urine  
Remark: Svizzera. Lista di valori BAT

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: End of workday  
Value: 400 mg/g Creatinine; Medium: Urine  
Remark: Uruguay. Health surveillance of workers - Biological Exposure Indices (BEI).

Biological Indicator: styrene; Sampling Period: End of workday  
Value: 0.2 mg/L; Medium: Blood  
Remark: Uruguay. Health surveillance of workers - Biological Exposure Indices (BEI).

Biological Indicator: Mandelic acid and phenylglyoxylic; Sampling Period: End of turn  
Value: 400 mg/g Creatinine; Medium: Urine  
Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)

Biological Indicator: Styrene; Sampling Period: End of turn  
Value: 40 µg/L; Medium: Urine  
Remark: ACGIH - Indicatori di Esposizione Biologica (BEI)

Biological Indicator: Mandelic acid; Sampling Period: End of workday  
Value: 400 mg/g Creatinine; Medium: Urine  
Remark: VE.Biological Exposure Limits

Biological Indicator: Styrene; Sampling Period: End of workday  
Value: 0.2 mg/L; Medium: Blood  
Remark: VE.Biological Exposure Limits

Sampling Period: during long-term exposure: at the end of the work shift after several consecutive  
workdays



Sampling Period: End of turn  
 Sampling Period: In case of long-term exposure: after more than one shift  
 Sampling Period: End of turn  
 Sampling Period: In case of long-term exposure: after more than one shift  
 Sampling Period: After shift  
 Sampling Period: In case of long-term exposure: after more than one shift  
 Sampling Period: End of turn

#### Predicted No Effect Concentration (PNEC) values

styrene CAS: 100-42-5	Exposure Route: Fresh Water; PNEC Limit: 0.028 mg/l
	Exposure Route: Marine water; PNEC Limit: 0.014 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 0.614 mg/kg
	Exposure Route: Marine water sediments; PNEC Limit: 0.307 mg/kg
	Exposure Route: Soil; PNEC Limit: 0.2 mg/kg
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 5 mg/l
titanium dioxide CAS: 13463-67-7	Exposure Route: Fresh Water; PNEC Limit: 1 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 1000 mg/kg
	Exposure Route: Marine water; PNEC Limit: 0.127 mg/l
	Exposure Route: Marine water sediments; PNEC Limit: 100 mg/kg
	Exposure Route: Soil; PNEC Limit: 100 mg/kg

#### Derived No Effect Level (DNEL) values

styrene CAS: 100-42-5	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 406 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 85 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Professional: 289 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute) Worker Professional: 306 mg/m3
	Exposure Route: Oral; Exposure Frequency: Long Term, systemic effects Consumer: 2.1 mg/kg
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Consumer: 343 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Consumer: 10 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Consumer: 174.25 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term (acute) Consumer: 182.75 mg/m3
	titanium dioxide CAS: 13463-67-7
Exposure Route: Human Oral; Exposure Frequency: Specific Effects Consumer: 700 ppm	

#### 8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

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## SECTION 9: Physical and chemical properties

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

Physical State: Liquid

Colour: Beige

Odour: N.A.

pH: Not Relevant

Kinematic viscosity: > 20,5 mm<sup>2</sup>/sec (40 °C)

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: 23°C / 60°C

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.00 g/cm<sup>3</sup>

Solubility in water: N.A.

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Flammability: The product is classified Flam. Liq. 3 H226

Kinematic viscosity m<sup>2</sup>/s (40°C) > 20,5 mm<sup>2</sup>/sec (40 °C)

Viscosity: = 65.00 s - Method: ISO/DIN 2431 84 - Section: 6.00 mm

#### Particle characteristics:

Particle size: N.A.

### 9.2. Other information

Evaporation rate: N.A.

Miscibility: N.A.

Conductivity: N.A.

No other relevant information

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Data not available.

### 10.3. Possibility of hazardous reactions

None.

### 10.4. Conditions to avoid

Stable under normal conditions.

### 10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

### 10.6. Hazardous decomposition products

None.

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## SECTION 11: Toxicological information

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

#### Toxicological Information of the Preparation

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

ATEmix - Inhalation (Vapours) : 59 mg/l

b) skin corrosion/irritation

The product is classified: Skin Irrit. 2(H315)

c) serious eye damage/irritation

The product is classified: Eye Irrit. 2(H319)

d) respiratory or skin sensitisation

The product is classified: Skin Sens. 1A(H317)

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity	Not classified
	Based on available data, the classification criteria are not met
g) reproductive toxicity	The product is classified: Repr. 2(H361)
h) STOT-single exposure	The product is classified: STOT SE 3(H335)
i) STOT-repeated exposure	The product is classified: STOT RE 1(H372)
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

#### Toxicological information on main components of the mixture:

Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	a) acute toxicity	LD50 Oral > 5000 mg/kg bw	
styrene	a) acute toxicity	LD50 Oral Rat = 5000 mg/kg LC50 Inhalation Rat = 11.8 mg/l 4h LD50 Skin Rat > 2000 mg/kg	OECD Test Guideline 402
titanium dioxide	a) acute toxicity	LD50 Oral Rat > 5000 mg/kg LD50 Skin Rabbit > 5000 mg/kg	

#### 11.2. Information on other hazards

##### Endocrine disrupting properties:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

#### List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
styrene	CAS: 100-42-5 - EINECS: 202- 851-5 - INDEX: 601-026-00-0	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas (fathead minnow) = 4.02 mg/L 96 H  a) Aquatic acute toxicity : EC50 Invertebrates Daphnia magna (Water flea) = 4.7 mg/L 48 H  e) Plant toxicity : EC10 Algae Pseudokirchneriella subcapitata (microalgae) = 0.28 mg/L 96 H  b) Aquatic chronic toxicity : NOEC Invertebrates Daphnia magna (Water flea) = 1.01 mg/L 21 D  e) Plant toxicity : EC50 Algae Pseudokirchneriella subcapitata (microalgae) = 4.9 mg/L 72 H
titanium dioxide	CAS: 13463-67- 7 - EINECS: 236-675-5 - INDEX: 022- 006-00-2	a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96h  a) Aquatic acute toxicity : EC50 Daphnia > 100 mg/L 48h

### 12.2. Persistence and degradability

N.A.

### 12.3. Bioaccumulative potential

N.A.

### 12.4. Mobility in soil

N.A.

## 12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration  $\geq 0.1\%$

## 12.6. Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7. Other adverse effects

N.A.

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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## SECTION 14: Transport information

### 14.1. UN number or ID number

1263

### 14.2. UN proper shipping name

ADR-Shipping Name: PAINT

IATA-Shipping Name: PAINT

IMDG-Shipping Name: PAINT

### 14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

### 14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

### 14.5. Environmental hazards

Toxic ingredients quantity: 0.00

Very toxic ingredients quantity: 0.00

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: F-E, S-E

### 14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR exempt:

ADR-Label: 3

ADR - Hazard identification number: -

ADR-Special Provisions: 163 367 650

ADR-Transport category (Tunnel restriction code): 3 (E)

Air (IATA):

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage and handling: Category A

IMDG-Segregation: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 223 367 955

### 14.7. Maritime transport in bulk according to IMO instruments

N.A.

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## SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)  
Regulation (EU) n. 2020/217 (ATP 14 CLP)  
Regulation (EU) n. 2020/1182 (ATP 15 CLP)  
Regulation (EU) n. 2021/643 (ATP 16 CLP)  
Regulation (EU) n. 2021/849 (ATP 17 CLP)  
Regulation (EU) n. 2020/878  
Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:  
Restrictions related to the product: 3, 40  
Restrictions related to the substances contained: 75

**Provisions related to directive EU 2012/18 (Seveso III):**

Seveso III category according to Annex 1, part 1	Lower-tier threshold (tonnes)	Upper-tier threshold (tonnes)
Product belongs to category: P5c	5000	50000
Regulation (EU) No 649/2012 (PIC regulation)	No substances listed	

**German Water Hazard Class.**

2: Hazard to waters

**SVHC Substances:**

No data available

**DIRECTIVE 2010/75/EU (VOC directive)**

Volatile Organic compounds - VOCs = 20.00 %  
Volatile Organic compounds - VOCs = 200.00 g/L  
Estimated Total Content of Water 0.00 %  
Estimated Total Solid Content 80.00 %

**Storage Class (TRGS 510)**

Storage Class (TRGS 510) Flammable liquid substances

**Classification according to VbF**

Classification according to VbF Exempt

**Mal-Code (Denmark)**

Mal-Code (Denmark)	Mal Factor	Unit of Measure	Revision Status / Number	Regulatory Base
4 - 6	2.971	m3 air/10 g	1993	Administrative determined MAL-Factors

**Biocides**

REGULATION (EC) No 528/2012

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for the mixture.

**SECTION 16: Other information**

Code	Description
EUH071	Corrosive to the respiratory tract.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.

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.
H335	May cause respiratory irritation.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H372	Causes damage to organs (hearing organs) through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.1/1	Resp. Sens. 1	Respiratory Sensitisation, Category 1
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.7/2	Repr. 2	Reproductive toxicity, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/1	STOT RE 1	Specific target organ toxicity — repeated exposure, Category 1
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
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2.6/3	On basis of test data
3.2/2	Calculation method
3.3/2	Calculation method
3.4.2/1A	Calculation method
3.7/2	Calculation method
3.8/3	Calculation method
3.9/1	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).  
 CAV: Poison Center  
 CE: European Community  
 CLP: Classification, Labeling, Packaging.  
 CMR: Carcinogenic, Mutagenic and Reprotoxic  
 COD: Chemical Oxygen Demand  
 COV: Volatile Organic Compound  
 CSA: Chemical Safety Assessment  
 CSR: Chemical Safety Report  
 DMEL: Derived Minimal Effect Level  
 DNEL: Derived No Effect Level.  
 DPD: Dangerous Preparations Directive  
 DSD: Dangerous Substances Directive  
 EC50: Half Maximal Effective Concentration  
 ECHA: European Chemicals Agency  
 EINECS: European Inventory of Existing Commercial Chemical Substances.  
 ES: Exposure Scenario  
 GefStoffVO: Ordinance on Hazardous Substances, Germany.  
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals.  
 IARC: International Agency for Research on Cancer  
 IATA: International Air Transport Association.  
 IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).  
 IC50: half maximal inhibitory concentration  
 ICAO: International Civil Aviation Organization.  
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).  
 IMDG: International Maritime Code for Dangerous Goods.  
 INCI: International Nomenclature of Cosmetic Ingredients.  
 IRCCS: Scientific Institute for Research, Hospitalization and Health Care  
 KAFH: KAFH  
 KSt: Explosion coefficient.  
 LC50: Lethal concentration, for 50 percent of test population.  
 LD50: Lethal dose, for 50 percent of test population.  
 LDLo: Leathal Dose Low  
 N.A.: Not Applicable  
 N/A: Not Applicable  
 N/D: Not defined/ Not available  
 NA: Not available  
 NIOSH: National Institute for Occupational Safety and Health  
 NOAEL: No Observed Adverse Effect Level  
 OSHA: Occupational Safety and Health Administration  
 PBT: Persistent, Bioaccumulative and Toxic  
 PGK: Packaging Instruction  
 PNEC: Predicted No Effect Concentration.  
 PSG: Passengers  
 RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.  
 STEL: Short Term Exposure limit.  
 STOT: Specific Target Organ Toxicity.  
 TLV: Threshold Limiting Value.  
 TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).  
 vPvB: Very Persistent, Very Bioaccumulative.  
 WGK: German Water Hazard Class.

**Paragraphs modified from the previous revision:**

- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 15: Regulatory information