

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 06/04/2020 Date of issue: 05/03/2015

Version: 3.0

## SECTION 1: Identification of the Substance/mixture and of the Company/Undertaking

#### **Product Identifier** 1.1.

Product form Mixture Product Name R-1008-1

Synonyms Silicone Coating

#### 1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

#### 1.2.1. Relevant Identified Uses

Use of the Substance/Mixture For professional use only.

#### 1.2.2. Uses Advised Against

No additional information available

#### Details of the Supplier of the Safety Data Sheet

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#### **SECTION 2: Hazards Identification**

#### Classification of the Substance or Mixture 2.1.

Classification According to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 3 H226 Skin Irrit. 2 H315 Eve Irrit. 2 H319 Skin Sens. 1 H317 STOT SE 3 H335 STOT RE 2 H373 Asp. Tox. 1 H304

Full text of hazard classes and H-statements: see section 16

#### Label Elements 2.2.

Labelling According to Regulation (EC) No. 1272/2008 [CLP]

Hazard Pictograms (CLP)





GHS02

GHS07

Signal Word (CLP) Hazardous Ingredients Danger

2-Butanone, O,O',O''-(methylsilylidyne)trioxime; Dibutyltin

06/04/2020 1/19

#### Hazard Statements (CLP)

dilaurate; Reaction mass of ethylbenzene and xylene

H226 - Flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

H373 - May cause damage to organs through prolonged or repeated exposure.

#### Precautionary Statements (CLP)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 - Keep container tightly closed.

P240 - Ground and bond container and receiving equipment.

P241 - Use explosion-proof electrical, ventilating, and lighting equipment.

P242 - Use non-sparking tools.

P243 - Take action to prevent static discharges.

P260 - Do not breathe vapours, mist, spray

P264 - Wash hands, forearms and face thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear eye protection, protective clothing, protective gloves

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P302+P352 - IF ON SKIN: Wash with plenty of water

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .

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

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 - Call a POISON CENTRE or doctor if you feel unwell.

P321 - Specific treatment (see Section 4 on this SDS)

P331 - Do NOT induce vomiting.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use water spray, fog, carbon dioxide, dry chemical powder, foam to extinguish.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional,

national and/or international regulation.

#### 2.3. Other Hazards

Contains PBT/vPvB substances >= 0.1% assessed in accordance with REACH Annex XIII

Other Hazards Not Contributing Exposure may aggravate pre-existing eye, skin, or respiratory to the Classification conditions.

## **SECTION 3: Composition/Information on Ingredients**

#### 3.1. Substances

Not applicable

## 3.2. Mixtures

Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Reaction mass of ethylbenzene and xylene	(CAS-No.) Not Applicable (REACH Registration No.) 01-2119539452- 40-0053 (EC-No.) 905-588-0	10 - 30	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
2-Butanone, O,O',O"- (methylsilylidyne)trioxime	(CAS-No.) 22984-54-9 (EC-No.) 245-366-4	< 15	Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT RE 2, H373
Titanium dioxide	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5	< 10	Not classified
Octamethylcyclotetrasiloxane	(CAS-No.) 556-67-2 (EC-No.) 209-136-7 (EC Index-No.) 014- 018-00-1	< 1	Repr. 2, H361f Aquatic Chronic 4, H413
Decamethylcyclopentasiloxane	(CAS-No.) 541-02-6 (EC-No.) 208-764-9	< 1	Not classified
Dodecamethylcyclohexasiloxane	(CAS-No.) 540-97-6 (EC-No.) 208-762-8	< 1	Not classified
Dibutyltin dilaurate	(CAS-No.) 77-58-7 (EC-No.) 201-039-8 (EC Index-No.) 050- 030-00-3	< 0,3	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360 STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

**Inhalation** 

Contact

#### **SECTION 4: First Aid Measures**

#### 4.1. **Description of First-aid Measures**

First-Aid Measures General Never give anything by mouth to an unconscious person. If you

feel unwell, seek medical advice (show the label where

possible).

First-Aid Measures After If inhaled, remove to fresh air and keep at rest in a position

comfortable for breathing. When symptoms occur: go into open air and ventilate suspected area. Obtain medical

attention if breathing difficulty persists.

First-Aid Measures After Skin Immediately remove contaminated clothing. Obtain medical

attention if irritation/rash develops or persists. Immediately

drench affected area with water for at least 15 minutes.

First-Aid Measures After Eye Immediately rinse with water for at least 15 minutes. Remove Contact

contact lenses, if present and easy to do. Continue rinsing.

Obtain medical attention if pain, blinking or redness persist.

First-Aid Measures After Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Ingestion

#### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

Causes serious eye irritation. Causes skin irritation. May cause Symptoms/Effects

> respiratory irritation. Skin sensitisation. May be fatal if swallowed and enters airways. May cause damage to organs through

prolonged or repeated exposure.

Symptoms/Effects After Irritation of the respiratory tract and the other mucous

Inhalation membranes.

Symptoms/Effects After Skin Redness, pain, swelling, itching, burning, dryness, and

Contact dermatitis. May cause an allergic skin reaction.

Contact causes severe irritation with redness and swelling of the Symptoms/Effects After Eye

Contact conjunctiva.

Symptoms/Effects After Aspiration into the lungs can occur during ingestion or vomiting

Ingestion and may cause lung injury.

Chronic Symptoms May cause damage to organs through prolonged or repeated

exposure.

#### Indication of Any Immediate Medical Attention and Special Treatment Needed 4.3.

If medical advice is needed, have product container or label at hand. If exposed or concerned, get medical advice and attention.

## **SECTION 5: Firefighting Measures**

#### **Extinguishing Media**

Suitable Extinguishing Media Water spray, fog, carbon dioxide, dry chemical powder,

alcohol foam, polymer foam.

Unsuitable Extinguishing Media Do not use a heavy water stream. A heavy water stream may

> spread burning liquid. Application of water stream to hot product may cause frothing and increase fire intensity.

#### 5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard Flammable liquid and vapour. Vapours are heavier than air

and may travel considerable distance to an ignition source and

flash back to source of vapours.

**Explosion Hazard** May form flammable/explosive vapour-air mixture.

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Reactivity Reacts violently with strong oxidisers. Increased risk of fire or

explosion.

Hazardous Decomposition Products in Case of Fire

Silicon oxides. Carbon oxides (CO, CO<sub>2</sub>). Hydrocarbons. Smoke. Oxides of tin.

5.3. Advice for Firefighters

Precautionary Measures Fire Firefighting Instructions

Exercise caution when fighting any chemical fire. Do not breathe fumes from fires or vapours from

decomposition. Use water spray or fog for cooling exposed containers. Avoid release to the environment. In case of major fire and large quantities: Evacuate area. Fight fire remotely due

to the risk of explosion.

Protection During Firefighting Do not enter fire area without proper protective equipment,

including respiratory protection.

#### **SECTION 6: Accidental Release Measures**

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures Avoid breathing (vapor, mist, spray). Avoid all contact with skin.

eyes, or clothing. Use special care to avoid static electric charges. Keep away from heat, hot surfaces, sparks, open

flames, and other ignition sources. No smoking.

#### 6.1.1. For Non-Emergency Personnel

Protective Equipment Use appropriate personal protective equipment (PPE). Emergency Procedures Evacuate unnecessary personnel. Stop leak if safe to do so.

6.1.2. For Emergency Responders

Protective Equipment Equip cleanup crew with proper protection.

Emergency Procedures Upon arrival at the scene, a first responder is expected to

recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

Eliminate ignition sources.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and Materials for Containment and Cleaning Up

For Containment Contain any spills with dikes or absorbents to prevent migration

and entry into sewers or streams. As an immediate

precautionary measure, isolate spill or leak area in all directions.

Methods For Cleaning Up

Clean up spills immediately and dispose of waste safely. Absorb

and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for disposal. Use only non-sparking tools. Contact competent authorities after a

spill.

#### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## **SECTION 7: Handling And Storage**

### 7.1. Precautions for Safe Handling

Additional Hazards When Handle empty containers with care because residual vapours

Processed are flammable. When heated, material emits irritating fumes.

Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe

operating conditions are established and maintained.

Precautions for Safe Handling Avoid breathing vapors, mist, spray. Avoid contact with eyes,

skin and clothing. Take precautionary measures against static discharge. Use only non-sparking tools. Keep away from heat, sparks, open flames, hot surfaces. – No smoking. Wash hands and other exposed areas with mild soap and water before

eating, drinking or smoking and when leaving work.

Hygiene Measures Handle in accordance with good industrial hygiene and safety

procedures.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures Comply with applicable regulations. Take action to prevent

static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and

lighting equipment.

Storage Conditions Store in a dry, cool place. Keep/Store away from direct sunlight,

extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Store in a well-ventilated place. Keep container tightly closed. Keep in

fireproof place.

Incompatible Materials Strong acids, strong bases, strong oxidizers.

**7.3. Specific End Use(S)** For professional use only.

## **SECTION 8: Exposure Controls/Personal Protection**

### 8.1. Control Parameters

Xylenes (o-, m-, p- isomers)		
EU	IOELV TWA (mg/m³)	221 mg/m³ (pure)
EU	IOELV TWA (ppm)	50 ppm (pure)
EU	IOELV STEL (mg/m³)	442 mg/m³ (pure)
EU	IOELV STEL (ppm)	100 ppm (pure)
EU	Notes	Possibility of significant uptake through the skin (pure)
Austria	MAK (mg/m³)	221 mg/m³ (all isomers)
Austria	MAK (ppm)	50 ppm (all isomers)
Austria	MAK Short time value (mg/m³)	442 mg/m³
Austria	MAK Short time value (ppm)	100 ppm
Belgium	Limit value (mg/m³)	221 mg/m³
Belgium	Limit value (ppm)	50 ppm
Belgium	Short time value (mg/m³)	442 mg/m³
Belgium	Short time value (ppm)	100 ppm
Belgium	OEL chemical category (BE)	Skin, Skin notation pure

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According to Regulation (EC) No.	1907/2006 (REACH) with its amendment Regulation (EU) 2015/830	
Bulgaria	OEL TWA (mg/m³)	221 mg/m³ (pure)
Bulgaria	OEL TWA (ppm)	50 ppm (pure)
Bulgaria	OEL STEL (mg/m³)	442 mg/m³ (pure)
Bulgaria	OEL STEL (ppm)	100 ppm (pure)
Croatia	GVI (granična vrijednost izloženosti)	
	(mg/m³)	221 mg/m³
Croatia	GVI (granična vrijednost izloženosti)	
	(ppm)	50 ppm
Croatia	KGVI (kratkotrajna granična vrijednost	
	izloženosti) (mg/m³)	442 mg/m³
Croatia	KGVI (kratkotrajna granična vrijednost	100 10 10
Cup oution	izloženosti) (ppm)	100 ppm
Croatia	OEL chemical category (HR)	Skin notation
Croatia	Croatia - BLV	1,5 mg/l Parameter: Xylene - Medium: blood - Sampling time: at the end of the work shift (alcohol before exposure to Xylene raises occurrence) 1,5 g/g creatinine Parameter: Methylhippuric acid - Medium: urine - Sampling time: at the end of the work shift (calculated on the average Creatinine value of 1.2 g/L urine)
Cyprus	OEL TWA (mg/m³)	221 mg/m³
Cyprus	OEL TWA (ppm)	50 ppm
Cyprus	OEL STEL (mg/m³)	442 mg/m³
Cyprus	OEL STEL (ppm)	100 ppm
Cyprus	OEL chemical category (CY)	Skin-potential for cutaneous absorption
Czech Republic	Expoziční limity (PEL) (mg/m³)	200 mg/m³
Czech Republic	OEL chemical category (CZ)	Potential for cutaneous absorption
Czech Republic	Czech Republic - BLV	820 µmol/mmol Creatinine Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of shift 1400 mg/g creatinine Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of shift
Denmark	Grænseværdie (langvarig) (mg/m³)	109 mg/m³ (Xylene, all isomers)
Denmark	Grænseværdie (langvarig) (ppm)	25 ppm (Xylene, all isomers)
Estonia	OEL TWA (mg/m³)	200 mg/m³
Estonia	OEL TWA (ppm)	50 ppm
Estonia	OEL STEL (mg/m³)	450 mg/m³
Estonia	OEL STEL (ppm)	100 ppm
Estonia	OEL chemical category (ET)	Skin notation
Finland	HTP-arvo (8h) (mg/m³)	220 mg/m³
Finland	HTP-arvo (8h) (ppm)	50 ppm
1		<u> </u>

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Finland	1907/2006 (REACH) with its amendment Regulation (EU) 2015/830	140 mg/m³
	HTP-arvo (15 min)	440 mg/m³
Finland	HTP-arvo (15 min) (ppm)	100 ppm
Finland	OEL chemical category (FI)	Potential for cutaneous absorption
Finland	Finland - BLV	Parameter: Methylhippuric acid - Medium: urine - Sampling time: after the shift
France	VLE (mg/m³)	442 mg/m³ (restrictive limit)
France	VLE (ppm)	100 ppm (restrictive limit)
France	VME (mg/m³)	221 mg/m³ (restrictive limit)
France	VME (ppm)	50 ppm (restrictive limit)
France	OEL chemical category (FR)	Risk of cutaneous absorption
France	France - BLV	1500 mg/g creatinine Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of shift
Germany	Occupational exposure limit value (mg/m³)	440 mg/m³ (all isomers)
Germany	Occupational exposure limit value (ppm)	100 ppm (all isomers)
Germany	TRGS 903 Biological limit value	2000 mg/l Parameter: Methylhippuric(tolur-)acid (all isomers) - Medium: urine - Sampling time: end of shift (all isomers)
Germany	Chemical category	Skin notation all isomers
Gibraltar	Eight hours mg/m3	221 mg/m³ (pure)
Gibraltar	Eight hours ppm	50 ppm (pure)
Gibraltar	Short-term mg/m3	442 mg/m³ (pure)
Gibraltar	Short-term ppm	100 ppm (pure)
Gibraltar	OEL chemical category (GI)	Skin notation pure
Greece	OEL TWA (mg/m³)	435 mg/m³
Greece	OEL TWA (ppm)	100 ppm
Greece	OEL STEL (mg/m³)	650 mg/m³
Greece	OEL STEL (ppm)	150 ppm
Greece	OEL chemical category (GR)	skin - potential for cutaneous absorption
Hungary	AK-érték	221 mg/m³
Hungary	CK-érték	442 mg/m³
Hungary	OEL chemical category (HU)	Potential for cutaneous absorption
Ireland	OEL (8 hours ref) (mg/m³)	221 mg/m³
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m3)	442 mg/m³
Ireland	OEL (15 min ref) (ppm)	100 ppm
Ireland	OEL chemical category (IE)	Potential for cutaneous absorption
Italy	OEL TWA (mg/m³)	221 mg/m³ (pure)
Italy	OEL TWA (ppm)	50 ppm (pure)
Italy	OEL STEL (mg/m³)	442 mg/m³ (pure)
Italy	OEL STEL (ppm)	100 ppm (pure)

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Italy	1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  OEL chemical category (IT)	skin - potential for cutaneous
,		absorption pure
Latvia	OEL TWA (mg/m³)	221 mg/m³
Latvia	OEL TWA (ppm)	50 ppm
Latvia	OEL chemical category (LV)	skin - potential for cutaneous
		exposure
Lithuania	IPRV (mg/m³)	221 mg/m³ (mixed isomers, pure)
Lithuania	IPRV (ppm)	50 ppm (mixed isomers, pure)
Lithuania	TPRV (mg/m³)	442 mg/m³ (mixed isomers, pure)
Lithuania	TPRV (ppm)	100 ppm (mixed isomers, pure)
Lithuania	OEL chemical category (LT)	Skin notation
Luxembourg	OEL TWA (mg/m³)	221 mg/m³
Luxembourg	OEL TWA (ppm)	50 ppm
Luxembourg	OEL STEL (mg/m³)	442 mg/m³
Luxembourg	OEL STEL (ppm)	100 ppm
Luxembourg	OEL chemical category (LU)	Possibility of significant uptake
		through the skin
Malta	OEL TWA (mg/m³)	221 mg/m³ (pure)
Malta	OEL TWA (ppm)	50 ppm (pure)
Malta	OEL STEL (mg/m³)	442 mg/m³ (pure)
Malta	OEL STEL (ppm)	100 ppm (pure)
Malta	OEL chemical category (MT)	Possibility of significant uptake
		through the skin pure
Netherlands	Grenswaarde TGG 8H (mg/m³)	210 mg/m³
Netherlands	Grenswaarde TGG 15MIN (mg/m³)	442 mg/m³
Norway	Grenseverdier (AN) (mg/m³)	108 mg/m³
Norway	Grenseverdier (AN) (ppm)	25 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	135 mg/m³ (value calculated)
Norway	Grenseverdier (Korttidsverdi) (ppm)	37,5 ppm (value calculated)
Norway	OEL chemical category (NO)	Skin notation
Poland	NDS (mg/m³)	100 mg/m³ (mixture of isomers)
Poland	NDSCh (mg/m³)	200 mg/m³ (mixture of isomers)
Portugal	OEL TWA (mg/m³)	221 mg/m³ (indicative limit value)
Portugal	OEL TWA (ppm)	50 ppm (indicative limit value)
Portugal	OEL STEL (mg/m³)	442 mg/m³ (indicative limit value)
Portugal	OEL STEL (ppm)	100 ppm (indicative limit value)
Portugal	OEL chemical category (PT)	A4 - Not Classifiable as a Human
		Carcinogen, skin - potential for
		cutaneous exposure indicative limit
Domania	OEL TM/A (mod/m3)	value
Romania	OEL TWA (ng/m³)	221 mg/m³ (pure)
Romania	OEL TWA (ppm)	50 ppm (pure)
Romania	OEL STEL (mg/m³)	442 mg/m³ (pure)
Romania	OEL STEL (ppm)	100 ppm (pure)
Romania	OEL chemical category (RO)	Skin notation pure

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Romania	1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  Romania - BLV	3 g/l Parameter: Methylhippuric acid
		- Medium: urine - Sampling time: end
		of shift
Slovakia	NPHV (priemerná) (mg/m³)	221 mg/m³
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	NPHV (Hraničná) (mg/m³)	442 mg/m³
Slovakia	OEL chemical category (SK)	Potential for cutaneous absorption
Slovakia	Slovakia - BLV	1,5 mg/l Parameter: Xylene - Medium: blood - Sampling time: end of exposure or work shift (all isomers) 2000 mg/l Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of exposure or work shift
Slovenia	OEL TWA (mg/m³)	221 mg/m³
Slovenia	OEL TWA (ppm)	50 ppm
Slovenia	OEL STEL (mg/m³)	442 mg/m³
Slovenia	OEL STEL (ppm)	100 ppm
Slovenia	OEL chemical category (SI)	Potential for cutaneous absorption
Spain	VLA-ED (mg/m³)	221 mg/m³ (indicative limit value)
Spain	VLA-ED (ppm)	50 ppm (indicative limit value)
Spain	VLA-EC (mg/m³)	442 mg/m³
Spain	VLA-EC (ppm)	100 ppm
Spain	OEL chemical category (ES)	skin - potential for cutaneous absorption
Spain	Spain - BLV	1 g/g creatinine Parameter: Methylhippuric acids - Medium: urine - Sampling time: end of shift
Sweden	nivågränsvärde (NVG) (mg/m³)	221 mg/m³ (Xylene)
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm (Xylene)
Sweden	kortidsvärde (KTV) (mg/m³)	442 mg/m³ (Xylene)
Sweden	kortidsvärde (KTV) (ppm)	100 ppm (Xylene)
Sweden	OEL chemical category (SE)	Skin notation
Switzerland	KZGW (mg/m³)	870 mg/m³
Switzerland	KZGW (ppm)	200 ppm
Switzerland	MAK (mg/m³)	435 mg/m³
Switzerland	MAK (ppm)	100 ppm
Switzerland	OEL chemical category (CH)	Skin notation
Switzerland	Switzerland - BLV	2 g/l Parameter: Methylhippuric acid - Medium: urine - Sampling time: end of shift
United Kingdom	WEL TWA (mg/m³)	220 mg/m³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m³)	441 mg/m³
United Kingdom	WEL STEL (ppm)	100 ppm
United Kingdom	WEL chemical category	Potential for cutaneous absorption
Titanium dioxide	(13463-67-7)	

Safety Data Sheet According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Austria MAK (mg/m²) \$ mg/m² (alveolar dust, respirable fraction)  Austria MAK Short time value (mg/m²) 10 mg/m² (alveolar dust, respirable fraction)  Belgium Limit value (mg/m²) 10 mg/m² (alveolar dust, respirable fraction)  Bulgaria OEL TWA (mg/m²) 10 mg/m² (tespirable dust)  Croatia GVI (granicina vrijednost izloženosti) (mg/m²) 10 mg/m² (tespirable dust)  Denmark Graenseværdie (langvarig) (mg/m²) 5 mg/m²  Estonia OEL TWA (mg/m²) 5 mg/m²  France VME (mg/m²) 10 mg/m² (tespirable dust)  Greece OEL TWA (mg/m²) 10 mg/m² (tespirable fraction)  Ireland OEL (8 hours ret) (mg/m²) 10 mg/m² (tespirable fraction)  Ireland OEL (15 min ref) (mg/m³) 30 mg/m² (calculated-respirable dust)  Latvia OEL TWA (mg/m²) 5 mg/m²  Norway Grenseverdier (AN) (mg/m²) 5 mg/m²  Norway Grenseverdier (Korttidsverdi) (mg/m3) 10 mg/m² (value calculated)  Poland NDS (mg/m²) 10 mg/m² (value calculated)  Portugal OEL TWA (mg/m²) 10 mg/m² (value calculated)  Portugal OEL TWA (mg/m²) 10 mg/m²  Siovakia NPHV (priememá) (mg/m²) 15 mg/m²  Sovakia NPHV (priememá) (mg/m²) 5 mg/m²  Siovakia NPHV (priememá) (mg/m²) 5 mg/m²  Siovakia NPHV (priememá) (mg/m²) 5 mg/m²  Siovakia NPHV (priememá) (mg/m²) 5 mg/m²  Lindia (DEL TWA (mg/m²) 10 mg/m²  Siovakia NPHV (priememá) (mg/m²) 5 mg/m² (tespirable dust)  United Kingdom WEL STEL (mg/m²) 3 mg/m² (tespirable)  United Kingdom WEL STEL (mg/m²) 3 mg/m² (tespirable)  United Kingdom WEL STEL (mg/m²) 0.1 mg/m² (except fri-n-Butyltin compounds-inholable fraction)  Austria MAK (mg/m²) 0.1 mg/m² (except fri-n-Butyltin compounds-inholable fraction)	According to Regulation (EC) No.	1907/2006 (REACH) with its amendment Regulation (EU) 2015/830	1
Belgium Limit value (mg/m²) 10 mg/m² Bulgaria OEL TWA (mg/m²) 10 mg/m² (respirable dust) Croatia GVI (granična vrijednost izloženosti) (mg/m²) (fespirable dust) Denmark Grænseværdie (langvarig) (mg/m²) 6 mg/m² (fespirable dust) Estonia OEL TWA (mg/m²) 10 mg/m² (fespirable dust) France VME (mg/m²) 10 mg/m² (fespirable dust) Greece OEL TWA (mg/m²) 10 mg/m² (finhalable fraction) France VME (mg/m²) 10 mg/m² (frespirable dust) Ireland OEL (8 hours ref) (mg/m³) 10 mg/m² (frespirable dust) Ireland OEL (15 min ref) (mg/m³) 30 mg/m² (respirable dust) Ireland OEL (15 min ref) (mg/m³) 30 mg/m² (respirable dust) Iz mg/m² (value calculated) Iz mg/m² (value calculated) Iz mg/m² (value calculated) Iz mg/m² (respirable) Iz mg/m² (respirable dust) Iz m	Austria	MAK (mg/m³)	
Bulgaria   OEL TWA (mg/m³)   10 mg/m³ (respirable dust)	Austria	MAK Short time value (mg/m³)	• •
Croatia         GVI (granična vrijednost izloženosti) (mg/m³)         10 mg/m³ (total dust, inhalable particles) 4 mg/m³ (respirable dust)           Denmark         Grænseværdie (langvarig) (mg/m³)         6 mg/m³ (respirable dust)           Estonia         OEL TWA (mg/m³)         5 mg/m³           France         VME (mg/m³)         10 mg/m³           Greece         OEL TWA (mg/m³)         10 mg/m³ (inhalable fraction)           Ireland         OEL (8 hours ref) (mg/m³)         10 mg/m³ (total inhalable dust)           Ireland         OEL (15 min ref) (mg/m³)         30 mg/m³ (calculated-respirable dust)           Ireland         OEL TWA (mg/m³)         10 mg/m³ (calculated)           Latvia         OEL TWA (mg/m³)         10 mg/m³ (calculated)           Latvia         OEL TWA (mg/m³)         5 mg/m³           Norway         Grenseverdier (korttidsverdi) (mg/m³)         5 mg/m³           Norway         Grenseverdier (Korttidsverdi) (mg/m³)         10 mg/m³ (value calculated)           Poland         NDS (mg/m³)         10 mg/m³ (value calculated)           Portugal         OEL TWA (mg/m³)         10 mg/m³ (value calculated)           Portugal         OEL TWA (mg/m³)         10 mg/m³           Portugal         OEL TWA (mg/m³)         10 mg/m³           Romania         OEL TWA (mg/m³)	Belgium	Limit value (mg/m³)	10 mg/m³
Croatia         GVI (granična vrijednost izloženosti) (mg/m³)         10 mg/m³ (total dust, inhalable particles) 4 mg/m³ (respirable dust)           Denmark         Grænseværdie (langvarig) (mg/m³)         6 mg/m³ (respirable dust)           Estonia         OEL TWA (mg/m³)         5 mg/m³           France         VME (mg/m³)         10 mg/m³           Greece         OEL TWA (mg/m³)         10 mg/m³ (inhalable fraction)           Ireland         OEL (8 hours ref) (mg/m³)         10 mg/m³ (total inhalable dust)           Ireland         OEL (15 min ref) (mg/m³)         30 mg/m³ (calculated-respirable dust)           Ireland         OEL TWA (mg/m³)         10 mg/m³ (calculated)           Latvia         OEL TWA (mg/m³)         10 mg/m³ (calculated)           Latvia         OEL TWA (mg/m³)         5 mg/m³           Norway         Grenseverdier (korttidsverdi) (mg/m³)         5 mg/m³           Norway         Grenseverdier (Korttidsverdi) (mg/m³)         10 mg/m³ (value calculated)           Poland         NDS (mg/m³)         10 mg/m³ (value calculated)           Portugal         OEL TWA (mg/m³)         10 mg/m³ (value calculated)           Portugal         OEL TWA (mg/m³)         10 mg/m³           Portugal         OEL TWA (mg/m³)         10 mg/m³           Romania         OEL TWA (mg/m³)	Bulgaria	OEL TWA (mg/m³)	10 mg/m³ (respirable dust)
Estonia OEL TWA (mg/m³) 5 mg/m³ France VME (mg/m³) 10 mg/m² (inhalable fraction) Greece OEL TWA (mg/m³) 10 mg/m² (inhalable fraction) Ireland OEL (8 hours ref) (mg/m³) 10 mg/m² (fotal inhalable dust) 4 mg/m² (respirable dust) Ireland OEL (15 min ref) (mg/m3) 30 mg/m² (calculated-respirable dust) Iz mg/m² (calculated) Iteland OEL TWA (mg/m³) 5 mg/m² Lithuania IPRV (mg/m³) 5 mg/m² Norway Grenseverdier (AN) (mg/m³) 5 mg/m³ Norway Grenseverdier (Korttidsverdi) (mg/m3) 10 mg/m² (value calculated) Poland NDS (mg/m³) 10 mg/m² (value calculated) Portugal OEL TWA (mg/m²) 10 mg/m² (the concentration of the respirable Crystalline silica fraction is determined simultaneously-inhalable fraction) Portugal OEL TWA (mg/m²) 10 mg/m² Romania OEL TWA (mg/m²) 10 mg/m² Romania OEL STEL (mg/m²) 15 mg/m² Slovakia NPHV (priemerná) (mg/m²) 5 mg/m² Spain VLA-ED (mg/m²) 15 mg/m² Sweden nivāgrānsvārde (NVG) (mg/m²) 5 mg/m² (total dust) Switzerland MAK (mg/m²) 10 mg/m² (total inhalable) United Kingdom WEL TWA (mg/m²) 30 mg/m² (total inhalable) United Kingdom WEL STEL (mg/m³) 30 mg/m² (calculated-total inhalable) In organic compounds Austria MAK (mg/m³) 0,1 mg/m² (except fri-n-Butyttin compounds-inhalable fraction) Austria MAK (mg/m³) 0,2 mg/m² (except fri-n-Butyttin compounds-inhalable fraction)		, , , ,	10 mg/m³ (total dust, inhalable particles)
France         VME (mg/m³)         10 mg/m³           Greece         OEL TWA (mg/m³)         10 mg/m³ (inhalable fraction)           Ireland         OEL (8 hours ref) (mg/m³)         10 mg/m³ (respirable fraction)           Ireland         OEL (15 min ref) (mg/m³)         10 mg/m³ (total inhalable dust)           Ireland         OEL (15 min ref) (mg/m³)         30 mg/m³ (calculated-respirable dust)           Latvia         OEL TWA (mg/m³)         10 mg/m³           Latvia         OEL TWA (mg/m³)         5 mg/m³           Norway         Grenseverdier (AN) (mg/m³)         5 mg/m³           Norway         Grenseverdier (Korttidsverdi) (mg/m³)         10 mg/m³ (value calculated)           Poland         NDS (mg/m³)         10 mg/m³ (value calculated)           Portugal         OEL TWA (mg/m³)         10 mg/m³           Romania         OEL TWA (mg/m³)         10 mg/m³           Slovakia         NPHV (priemerad) (mg/m³)         5 mg/m³           Switz	Denmark	Grænseværdie (langvarig) (mg/m³)	6 mg/m³
France         VME (mg/m³)         10 mg/m³           Greece         OEL TWA (mg/m³)         10 mg/m³ (inhalable fraction)           Ireland         OEL (8 hours ref) (mg/m³)         10 mg/m³ (respirable fraction)           Ireland         OEL (15 min ref) (mg/m³)         10 mg/m³ (total inhalable dust)           Ireland         OEL (15 min ref) (mg/m³)         30 mg/m³ (calculated-respirable dust)           Latvia         OEL TWA (mg/m³)         10 mg/m³           Latvia         OEL TWA (mg/m³)         5 mg/m³           Norway         Grenseverdier (AN) (mg/m³)         5 mg/m³           Norway         Grenseverdier (Korttidsverdi) (mg/m³)         10 mg/m³ (value calculated)           Poland         NDS (mg/m³)         10 mg/m³ (value calculated)           Portugal         OEL TWA (mg/m³)         10 mg/m³           Romania         OEL TWA (mg/m³)         10 mg/m³           Slovakia         NPHV (priemerad) (mg/m³)         5 mg/m³           Switz	Estonia	OEL TWA (mg/m³)	5 mg/m³
S mg/m³ (respirable fraction)	France	VME (mg/m³)	10 mg/m³
Letand   OEL (15 min ref) (mg/m3)   30 mg/m³ (calculated-respirable dust)   12 mg/m³ (calculated-respirable dust)   12 mg/m³ (calculated)   10 mg/m³   10 mg/m³ (value calculated)   10 mg/m³   10	Greece	OEL TWA (mg/m³)	,
Ireland	Ireland	OEL (8 hours ref) (mg/m³)	
Lithuania IPRV (mg/m³) 5 mg/m³  Norway Grenseverdier (AN) (mg/m³) 5 mg/m³  Norway Grenseverdier (Korttidsverdi) (mg/m3) 10 mg/m³ (value calculated)  Poland NDS (mg/m³) 10 mg/m³ (the concentration of the respirable Crystalline silica fraction is determined simultaneously-inhalable fraction)  Portugal OEL TWA (mg/m³) 10 mg/m³  Portugal OEL twa (mg/m³) 10 mg/m³  Romania OEL TWA (mg/m³) 10 mg/m³  Romania OEL STEL (mg/m³) 15 mg/m³  Slovakia NPHV (priemerná) (mg/m³) 5 mg/m³  Spain VLA-ED (mg/m³) 10 mg/m³  Sweden nivågränsvärde (NVG) (mg/m³) 5 mg/m³ (total dust)  Switzerland MAK (mg/m³) 3 mg/m³ (total inhalable)  United Kingdom WEL TWA (mg/m³) 30 mg/m³ (respirable)  United Kingdom WEL STEL (mg/m³) 30 mg/m³ (calculated-total inhalable)  1 mg/m³ (calculated-respirable)  Tin organic compounds  Austria MAK (mg/m³) 0,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)  Austria MAK Short time value (mg/m³) 0,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)	Ireland	OEL (15 min ref) (mg/m3)	dust)
Lithuania IPRV (mg/m³) 5 mg/m³ Norway Grenseverdier (AN) (mg/m³) 5 mg/m³ Norway Grenseverdier (Korttidsverdi) (mg/m³) 10 mg/m³ (value calculated) Poland NDS (mg/m³) 10 mg/m³ (the concentration of the respirable Crystalline silica fraction is determined simultaneously-inhalable fraction) Portugal OEL TWA (mg/m³) 10 mg/m³ Portugal OEL themical category (PT) A4 - Not Classifiable as a Human Carcinogen Romania OEL TWA (mg/m³) 15 mg/m³ Slovakia NPHV (priemerná) (mg/m³) 5 mg/m³ Spain VLA-ED (mg/m³) 15 mg/m³ Sweden nivågränsvärde (NVG) (mg/m³) 5 mg/m³ (total dust) Switzerland MAK (mg/m³) 3 mg/m³ (total inhalable) United Kingdom WEL TWA (mg/m³) 30 mg/m³ (respirable dust) United Kingdom WEL TWA (mg/m³) 30 mg/m³ (calculated-total inhalable) 1 mg/m³ (calculated-total inhalable) 1 mg/m³ (calculated-total inhalable) 1 mg/m³ (calculated-respirable)  Tin organic compounds  Austria MAK (mg/m³) 0,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)  Austria MAK Short time value (mg/m³) 0,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)	Latvia	OEL TWA (mg/m³)	10 mg/m³
Norway         Grenseverdier (AN) (mg/m³)         5 mg/m³           Norway         Grenseverdier (Korttidsverdi) (mg/m³)         10 mg/m³ (value calculated)           Poland         NDS (mg/m³)         10 mg/m³ (the concentration of the respirable Crystalline silica fraction is determined simultaneously-inhalable fraction)           Portugal         OEL TWA (mg/m³)         10 mg/m³           Portugal         OEL chemical category (PT)         A4 - Not Classifiable as a Human Carcinogen           Romania         OEL TWA (mg/m³)         10 mg/m³           Romania         OEL STEL (mg/m³)         15 mg/m³           Slovakia         NPHV (priemerná) (mg/m³)         5 mg/m³           Spain         VLA-ED (mg/m³)         10 mg/m³           Sweden         nivågränsvärde (NVG) (mg/m³)         5 mg/m³ (total dust)           Switzerland         MAK (mg/m³)         3 mg/m³ (respirable dust)           United Kingdom         WEL TWA (mg/m³)         10 mg/m³ (total inhalable)           4 mg/m³ (respirable)         30 mg/m³ (calculated-total inhalable)           12 mg/m³ (calculated-respirable)         Tin organic compounds           Austria         MAK (mg/m³)         0,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)           Austria         MAK Short time value (mg/m³)         0,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction) </td <td>Lithuania</td> <td></td> <td></td>	Lithuania		
Norway       Grenseverdier (Korttidsverdi) (mg/m3)       10 mg/m³ (value calculated)         Poland       NDS (mg/m³)       10 mg/m³ (the concentration of the respirable Crystalline silica fraction is determined simultaneously-inhalable fraction)         Portugal       OEL TWA (mg/m³)       10 mg/m³         Portugal       OEL chemical category (PT)       A4 - Not Classifiable as a Human Carcinogen         Romania       OEL TWA (mg/m³)       10 mg/m³         Romania       OEL STEL (mg/m³)       15 mg/m³         Slovakia       NPHV (priemerná) (mg/m³)       5 mg/m³         Spain       VLA-ED (mg/m³)       10 mg/m³         Sweden       nivågränsvärde (NVG) (mg/m³)       5 mg/m³ (total dust)         Switzerland       MAK (mg/m³)       3 mg/m³ (respirable dust)         United Kingdom       WEL TWA (mg/m³)       10 mg/m³ (total inhalable)         4 mg/m³ (respirable)       30 mg/m³ (calculated-total inhalable)         1 mg/m³ (calculated-respirable)       10 mg/m³ (calculated-respirable)         Tin organic compounds       0,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)         Austria       MAK Short time value (mg/m³)       0,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)	Norway	Grenseverdier (AN) (mg/m³)	
respirable Crystalline silica fraction is determined simultaneously-inhalable fraction)  Portugal OEL TWA (mg/m³) 10 mg/m³  Portugal OEL chemical category (PT) A4 - Not Classifiable as a Human Carcinogen  Romania OEL TWA (mg/m³) 10 mg/m³  Romania OEL STEL (mg/m³) 15 mg/m³  Slovakia NPHV (priemerná) (mg/m³) 5 mg/m³  Spain VLA-ED (mg/m³) 10 mg/m³  Sweden nivågränsvärde (NVG) (mg/m³) 5 mg/m³ (total dust)  Switzerland MAK (mg/m³) 3 mg/m³ (total inhalable) 4 mg/m³ (respirable dust)  United Kingdom WEL TWA (mg/m³) 30 mg/m³ (calculated-total inhalable) 12 mg/m³ (calculated-respirable)  Tin organic compounds  Austria MAK (mg/m³) 0,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)  Austria MAK Short time value (mg/m³) 0,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)	Norway	Grenseverdier (Korttidsverdi) (mg/m3)	10 mg/m³ (value calculated)
Portugal OEL chemical category (PT)  Romania OEL TWA (mg/m³) Romania OEL STEL (mg/m³) Slovakia NPHV (priemerná) (mg/m³) Spain VLA-ED (mg/m³) Sweden nivågränsvärde (NVG) (mg/m³) Switzerland MAK (mg/m³) United Kingdom United Kingdom United Kingdom United Kingdom WEL STEL (mg/m³)  United Kingdom WEL STEL (mg/m³)  Tin organic compounds  Austria MAK (mg/m³)  A4 - Not Classifiable as a Human Carcinogen  A5 mg/m³  Smg/m³  (total dust)  A mg/m³ (respirable dust)  To mg/m³ (respirable)  Tin organic compounds  Austria MAK (mg/m³)  O,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)  Austria MAK Short time value (mg/m³) O,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)	Poland	NDS (mg/m³)	respirable Crystalline silica fraction is determined simultaneously-inhalable
Romania OEL TWA (mg/m³) 10 mg/m³ Romania OEL STEL (mg/m³) 15 mg/m³ Slovakia NPHV (priemerná) (mg/m³) 5 mg/m³ Spain VLA-ED (mg/m³) 10 mg/m³ Sweden nivågränsvärde (NVG) (mg/m³) 5 mg/m³ (total dust) Switzerland MAK (mg/m³) 3 mg/m³ (respirable dust) United Kingdom WEL TWA (mg/m³) 10 mg/m³ (respirable dust) United Kingdom WEL STEL (mg/m³) 30 mg/m³ (calculated-total inhalable) 4 mg/m³ (respirable)  United Kingdom WEL STEL (mg/m³) 30 mg/m³ (calculated-total inhalable) 12 mg/m³ (calculated-total inhalable)  Tin organic compounds  Austria MAK (mg/m³) 0,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)  Austria MAK Short time value (mg/m³) 0,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)	Portugal	OEL TWA (mg/m³)	10 mg/m³
RomaniaOEL STEL (mg/m³)15 mg/m³SlovakiaNPHV (priemerná) (mg/m³)5 mg/m³SpainVLA-ED (mg/m³)10 mg/m³Swedennivågränsvärde (NVG) (mg/m³)5 mg/m³ (total dust)SwitzerlandMAK (mg/m³)3 mg/m³ (respirable dust)United KingdomWEL TWA (mg/m³)10 mg/m³ (total inhalable) 4 mg/m³ (respirable)United KingdomWEL STEL (mg/m³)30 mg/m³ (calculated-total inhalable) 12 mg/m³ (calculated-respirable)Tin organic compounds0,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)AustriaMAK (mg/m³)0,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)	Portugal	OEL chemical category (PT)	
SlovakiaNPHV (priemerná) (mg/m³)5 mg/m³SpainVLA-ED (mg/m³)10 mg/m³Swedennivågränsvärde (NVG) (mg/m³)5 mg/m³ (total dust)SwitzerlandMAK (mg/m³)3 mg/m³ (respirable dust)United KingdomWEL TWA (mg/m³)10 mg/m³ (total inhalable) 4 mg/m³ (respirable)United KingdomWEL STEL (mg/m³)30 mg/m³ (calculated-total inhalable) 12 mg/m³ (calculated-respirable)Tin organic compounds0,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)AustriaMAK (mg/m³)0,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)	Romania	OEL TWA (mg/m³)	
SpainVLA-ED (mg/m³)10 mg/m³Swedennivågränsvärde (NVG) (mg/m³)5 mg/m³ (total dust)SwitzerlandMAK (mg/m³)3 mg/m³ (respirable dust)United KingdomWEL TWA (mg/m³)10 mg/m³ (total inhalable) 4 mg/m³ (respirable)United KingdomWEL STEL (mg/m³)30 mg/m³ (calculated-total inhalable) 12 mg/m³ (calculated-respirable)Tin organic compounds0,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)AustriaMAK (mg/m³)0,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)	Romania	OEL STEL (mg/m³)	15 mg/m³
Swedennivågränsvärde (NVG) (mg/m³)5 mg/m³ (total dust)SwitzerlandMAK (mg/m³)3 mg/m³ (respirable dust)United KingdomWEL TWA (mg/m³)10 mg/m³ (total inhalable) 4 mg/m³ (respirable)United KingdomWEL STEL (mg/m³)30 mg/m³ (calculated-total inhalable) 12 mg/m³ (calculated-respirable)Tin organic compounds0,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)AustriaMAK (mg/m³)0,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)	Slovakia	NPHV (priemerná) (mg/m³)	5 mg/m³
Switzerland       MAK (mg/m³)       3 mg/m³ (respirable dust)         United Kingdom       WEL TWA (mg/m³)       10 mg/m³ (total inhalable)         4 mg/m³ (respirable)       30 mg/m³ (calculated-total inhalable)         12 mg/m³ (calculated-respirable)         Tin organic compounds         Austria       MAK (mg/m³)       0,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)         Austria       MAK Short time value (mg/m³)       0,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)	Spain	VLA-ED (mg/m³)	10 mg/m³
United Kingdom  WEL TWA (mg/m³)  10 mg/m³ (total inhalable)  4 mg/m³ (respirable)  30 mg/m³ (calculated-total inhalable) 12 mg/m³ (calculated-respirable)  Tin organic compounds  Austria  MAK (mg/m³)  O,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)  Austria  MAK Short time value (mg/m³)  0,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)	Sweden	nivågränsvärde (NVG) (mg/m³)	5 mg/m³ (total dust)
United Kingdom  WEL STEL (mg/m³)  30 mg/m³ (calculated-total inhalable) 12 mg/m³ (calculated-respirable)  Tin organic compounds  Austria  MAK (mg/m³)  O,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)  Austria  MAK Short time value (mg/m³)  0,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)	Switzerland	MAK (mg/m³)	3 mg/m³ (respirable dust)
inhalable) 12 mg/m³ (calculated-respirable)  Tin organic compounds  Austria  MAK (mg/m³)  O,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)  Austria  MAK Short time value (mg/m³)  O,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)	United Kingdom	WEL TWA (mg/m³)	· · · · · · · · · · · · · · · · · · ·
Austria  MAK (mg/m³)  O,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)  Austria  MAK Short time value (mg/m³)  O,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)	United Kingdom	WEL STEL (mg/m³)	30 mg/m³ (calculated-total inhalable)
Austria  MAK (mg/m³)  O,1 mg/m³ (except tri-n-Butyltin compounds-inhalable fraction)  Austria  MAK Short time value (mg/m³)  O,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)	Tin organic comp	oounds	
Austria MAK Short time value (mg/m³) 0,2 mg/m³ (except Tri-n-butyltin compounds-inhalable fraction)	· ·		, ,
	Austria	MAK Short time value (mg/m³)	0,2 mg/m³ (except Tri-n-butyItin
	Austria	OEL chemical category (AT)	· · · · · · · · · · · · · · · · · · ·

Safety Data Sheet According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Belgium Limit value (mg/m²) 0.1 mg/m² Belgium Short time value (mg/m²) 0.2 mg/m² Belgium OEL chemical category (BE) Skin Bulgaria OEL TWA (mg/m²) 0.1 mg/m² Croatia GV (granična vrijednost izloženosti) (mg/m²) 0.1 mg/m² Croatia (GV (granična vrijednost izloženosti) (mg/m²) 0.1 mg/m² (except Cyhexatin) Croatia KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m²) 0.2 mg/m² (except Cyhexatin) Czech Republic Expoziční limity (PEL) (mg/m²) 0.1 mg/m² (except Cyhexatin) Czech Republic OEL chemical category (C2) Potential for cutaneous absorption Denmark Grænseværdie (langvarig) (mg/m²) 0.1 mg/m² (except Tri-n-butyttin compounds) Estonia OEL TWA (mg/m²) 0.2 mg/m² Estonia OEL STEL (mg/m²) 0.2 mg/m² Estonia OEL chemical category (ET) Skin notation Finland HTP-arvo (15 min) 0.3 mg/m² Finland HTP-arvo (15 min) 0.3 mg/m² Finland OEL chemical category (FI) Potential for cutaneous absorption France VME (mg/m²) 0.2 mg/m² France VME (mg/m²) 0.1 mg/m² Greece OEL TWA (mg/m²) 0.1 mg/m² Hungary AK-érték 0.1 mg/m² Hungary OEL chemical category (HU) Potential for cutaneous absorption ireland OEL (B hours ref) (mg/m²) 0.1 mg/m² Lithuania IPRV (mg/m²) 0.2 mg/m² Lithuania IPRV (mg/m²) 0.2 mg/m² Norway Grenseverdier (AN) (mg/m²) 0.1 mg/m² Portugal OEL TWA (mg/m²) 0.2 mg/m² Portugal OEL STEL (mg/m²) 0.2 mg/m² Norway Grenseverdier (Kortitisverdi) (mg/m³) 0.3 mg/m² Portugal OEL TWA (mg/m²) 0.1 mg/m² Portugal OEL STEL (mg/m²) 0.2 mg/m² Portugal OEL TWA (mg/m²) 0.1 mg/m² Portugal OEL STEL (mg/m²) 0.2 mg/m² Portugal OEL STEL (mg/m²) 0.2 mg/m² Portugal OEL STEL (mg/m²) 0.2 mg/m² Portugal OEL STEL (mg/m²) 0.1 mg/m² Portugal OEL STEL (mg/m²) 0.1 mg/m² Portugal OEL STEL (mg/m²) 0.2 mg/m² Portugal OEL STEL (mg/m²) 0.1 mg/m² Portugal	According to Regulation (EC) No.	1907/2006 (REACH) with its amendment Regulation (EU) 2015/830	
Belgium         Short fime value (mg/m²)         0.2 mg/m²           Belgium         OEL chemical category (BE)         Skin           Bulgaria         OEL TWA (mg/m²)         0.1 mg/m³           Croatia         GVI (granična vrijednost izloženosti) (mg/m²)         0.1 mg/m³ (except Cyhexatin)           Croatia         KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m²)         0.2 mg/m³ (except Cyhexatin)           Czech Republic         Expozični limity (PEL) (mg/m³)         0.1 mg/m³ (except Cyhexatin)           Czech Republic         Ce Lehemical category (CZ)         Potential for cutaneous absorption           Denmark         Grænseværdie (langvarig) (mg/m³)         0.1 mg/m³ (except Tri-n-butyltin compounds)           Estonia         OEL TWA (mg/m³)         0.1 mg/m³ (except Tri-n-butyltin compounds)           Estonia         OEL TWA (mg/m³)         0.1 mg/m³ (except Tri-n-butyltin compounds)           Estonia         OEL TWA (mg/m³)         0.1 mg/m³           Estonia         OEL TWA (mg/m³)         0.2 mg/m³           Estonia         OEL chemical category (ET)         Skin notation           Finland         HTP-arvo (Bh) (mg/m³)         0.1 mg/m³           Finland         HTP-arvo (Bh) (mg/m³)         0.1 mg/m³           Finland         HTP-arvo (Bh) (mg/m³)         0.2 mg/m³			compounds
Belgium OEL chemical category (BE)  Bulgaria OEL TWA (mg/m³) 0.1 mg/m³  Croatia GVI (granična vrijednost izloženosti) (mg/m³) 0.1 mg/m³  Croatia KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³) 0.2 mg/m³ (except Cyhexatin)  Czech Republic Expozični limity (PEL) (mg/m³) 0.1 mg/m³  Czech Republic OEL chemical category (CZ) Potential for cutaneous absorption  Denmark Grænseværdie (langvarig) (mg/m³) 0.1 mg/m³ (except Tri-n-butyltin compounds)  Estonia OEL TWA (mg/m³) 0.1 mg/m³  Estonia OEL STEL (mg/m³) 0.2 mg/m³  Estonia OEL STEL (mg/m³) 0.2 mg/m³  Estonia OEL chemical category (ET) Skin notation  Finland HTP-arvo (15 min) 0.3 mg/m³  Finland HTP-arvo (15 min) 0.3 mg/m³  Finland OEL chemical category (FI) Potential for cutaneous absorption france VLE (mg/m³) 0.2 mg/m³  France VME (mg/m³) 0.1 mg/m³  Greece OEL TWA (mg/m³) 0.1 mg/m³  Greece OEL STEL (mg/m³) 0.1 mg/m³  Greece OEL STEL (mg/m³) 0.1 mg/m³  Hungary AK-érték 0.1 mg/m³  Hungary AK-érték 0.1 mg/m³  Ireland OEL (8 mours et al. (mg/m³) 0.1 mg/m³  Ireland OEL (8 mours et al. (mg/m³) 0.2 mg/m³  Ireland OEL (8 mours et al. (mg/m³) 0.1 mg/m³  Ireland OEL (8 mours et al. (mg/m³) 0.1 mg/m³  Ireland OEL (15 min ref) (mg/m³) 0.2 mg/m³  Ilithuania IPRV (mg/m³) 0.2 mg/m³  Ilithuania IPRV (mg/m³) 0.2 mg/m³  Norway Grenseverdier (AN) (mg/m³) 0.1 mg/m³  Norway Grenseverdier (Korthidsverdi) (mg/m³) 0.3 mg/m³ (value calculated)  Norway OEL chemical category (PT) A4 - Not Classifiable as a Human Carcinogen.skin - potential for cutaneous exposure  Romania OEL TWA (mg/m³) 0.15 mg/m³  Slovakia NPHV (priemenia) (mg/m³) 0.15 mg/m³	Belgium	Limit value (mg/m³)	0,1 mg/m³
Bulgaria         OEL TWA (mg/m³)         0.1 mg/m³           Croatia         GVI (granica vrijednost izloženosti) (mg/m³)         0.1 mg/m³ (except Cyhexatin)           Croatia         KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)         0.2 mg/m³ (except Cyhexatin)           Czech Republic         Expoziční limity (PEL) (mg/m³)         0.1 mg/m³ (except Cyhexatin)           Czech Republic         OEL chemical category (CZ)         Potential for cutaneous absorption           Denmark         Grænseværdie (langvarig) (mg/m³)         0.1 mg/m³ (except Tri-n-butyltin compounds)           Estonia         OEL TWA (mg/m³)         0.1 mg/m³           Estonia         OEL TWA (mg/m³)         0.2 mg/m³           Estonia         OEL STEL (mg/m³)         0.2 mg/m³           Estonia         OEL chemical category (ET)         Skin notation           Finland         HTP-arvo (8h) (mg/m³)         0.1 mg/m³           Finland         HTP-arvo (15 min)         0.3 mg/m³           Finland         OEL chemical category (FT)         Potential for cutaneous absorption           France         VLE (mg/m³)         0.2 mg/m³           France         VLE (mg/m³)         0.1 mg/m³           Greece         OEL TWA (mg/m³)         0.1 mg/m³           Greece         OEL TWA (mg/m³)         0.2 mg	Belgium	Short time value (mg/m³)	0,2 mg/m³
Croatia (GVI (granična vrijednost izloženosti) (ng/m²) 0.1 mg/m² (except Cyhexatin)  Croatia KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m²) 0.2 mg/m² (except Cyhexatin)  Czech Republic Expozični limity (PEL) (mg/m²) 0.1 mg/m² (except Cyhexatin)  Czech Republic OEL chemical category (CZ) Potential for cutaneous absorption  Denmark Grenseværdie (langvarig) (mg/m²) 0.1 mg/m² (except Tri-n-butyltin compounds)  Estonia OEL STEL (mg/m²) 0.2 mg/m²  Estonia OEL STEL (mg/m²) 0.2 mg/m²  Estonia OEL STEL (mg/m²) 0.1 mg/m²  Estonia HTP-arvo (Bh) (mg/m²) 0.1 mg/m²  Finland HTP-arvo (15 min) 0.3 mg/m²  Finland OEL chemical category (FI) Potential for cutaneous absorption  France VLE (mg/m²) 0.2 mg/m²  France VVE (mg/m²) 0.1 mg/m²  Greece OEL TWA (mg/m²) 0.1 mg/m²  Greece OEL STEL (mg/m²) 0.1 mg/m²  Greece OEL STEL (mg/m²) 0.2 mg/m²  Greece OEL STEL (mg/m²) 0.2 mg/m²  Greece OEL STEL (mg/m²) 0.1 mg/m²  Greece OEL Chemical category (GR) skin - potential for cutaneous absorption  Hungary AK-érték 0.1 mg/m²  Hungary CK-érték 0.4 mg/m²  Ireland OEL (B hours ref) (mg/m²) 0.1 mg/m²  Ireland OEL (B hours ref) (mg/m²) 0.1 mg/m²  Ireland OEL (B hours ref) (mg/m²) 0.1 mg/m²  Irithuania IPRV (mg/m²) 0.2 mg/m²  Lithuania IPRV (mg/m²) 0.2 mg/m²  Lithuania OEL (Ts min ref) (mg/m³) 0.2 mg/m²  Lithuania OEL (Ts min ref) (mg/m³) 0.2 mg/m²  Lithuania OEL (Ts min ref) (mg/m³) 0.1 mg/m²  Lithuania OEL (Ts min ref) (mg/m³) 0.2 mg/m²  Lithuania OEL (Ts min ref) (mg/m³) 0.1 mg/m²  Lithuania OEL (Ts min ref) (mg/m³) 0.1 mg/m²  Lithuania OEL chemical category (LT) Skin notation  Norway Grenseverdier (Kartitidsverdi) (mg/m³) 0.1 mg/m²  Lithuania OEL themical category (PT) A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure  Romania OEL TWA (mg/m²) 0.15 mg/m²  Slovakia NPHV (priemerná) (mg/m²) 0.15 mg/m²	Belgium	OEL chemical category (BE)	Skin
(mg/m²)	Bulgaria	OEL TWA (mg/m³)	0,1 mg/m³
Izloženosti) (mg/m²)   0,2 mg/m² (except Cyhexatin)	Croatia	(mg/m³)	0,1 mg/m³ (except Cyhexatin)
Czech Republic         OEL chemical category (CZ)         Potential for cutaneous absorption           Denmark         Grænseværdie (langvarig) (mg/m³)         0,1 mg/m³ (except Tri-n-butyltin compounds)           Estonia         OEL TWA (mg/m³)         0,1 mg/m³           Estonia         OEL STEL (mg/m³)         0,2 mg/m³           Estonia         OEL chemical category (ET)         Skin notation           Finland         HTP-arvo (8h) (mg/m³)         0,1 mg/m³           Finland         HTP-arvo (15 min)         0,3 mg/m³           Finland         OEL chemical category (FI)         Potential for cutaneous absorption           France         VLE (mg/m³)         0,2 mg/m³           France         VME (mg/m³)         0,1 mg/m³           Greece         OEL TWA (mg/m³)         0,1 mg/m³           Greece         OEL STEL (mg/m³)         0,2 mg/m³           Greece         OEL STEL (mg/m³)         0,2 mg/m³           Hungary         AK-érték         0,1 mg/m³           Hungary         AK-érték         0,1 mg/m³           Hungary         OEL Chemical category (HU)         Potential for cutaneous absorption           Ireland         OEL (8 hours ref) (mg/m³)         0,1 mg/m³           Ireland         OEL (8 hours ref) (mg/m³)         0,1 mg/m³ <td>Croatia</td> <td> · · · · · · · · · · · · · · · · · ·</td> <td>0,2 mg/m³ (except Cyhexatin)</td>	Croatia	· · · · · · · · · · · · · · · · · ·	0,2 mg/m³ (except Cyhexatin)
Denmark         Grænseværdie (langvarig) (mg/m³)         0,1 mg/m³ (except Tri-n-butyltin compounds)           Estonia         OEL TWA (mg/m³)         0,1 mg/m³           Estonia         OEL chemical category (ET)         Skin notation           Fishand         HTP-arvo (8h) (mg/m³)         0,1 mg/m³           Finland         HTP-arvo (15 min)         0,3 mg/m³           Finland         OEL chemical category (FI)         Potential for cutaneous absorption           France         VLE (mg/m²)         0,2 mg/m³           France         VME (mg/m²)         0,1 mg/m³           Greece         OEL TWA (mg/m²)         0,1 mg/m³           Greece         OEL STEL (mg/m²)         0,2 mg/m³           Greece         OEL chemical category (GR)         skin - potential for cutaneous absorption           Hungary         AK-érték         0,1 mg/m³           Hungary         CK-érték         0,4 mg/m³           Hungary         CEL (shous ref) (mg/m³)         0,1 mg/m³           Ireland         OEL (8 hours ref) (mg/m³)         0,1 mg/m³           Ireland         OEL (15 min ref) (mg/m³)         0,2 mg/m³           Lithuania         IPRV (mg/m³)         0,2 mg/m³           Lithuania         IPRV (mg/m³)         0,2 mg/m³ <td< td=""><td>Czech Republic</td><td>Expoziční limity (PEL) (mg/m³)</td><td>0,1 mg/m³</td></td<>	Czech Republic	Expoziční limity (PEL) (mg/m³)	0,1 mg/m³
Estonia OEL TWA (mg/m³) 0,1 mg/m³ Estonia OEL STEL (mg/m³) 0,2 mg/m³ Estonia OEL chemical category (ET) Skin notation Finland HTP-arvo (8h) (mg/m³) 0,3 mg/m³ Finland HTP-arvo (15 min) 0,3 mg/m³ Finland OEL chemical category (FI) Potential for cutaneous absorption France VLE (mg/m³) 0,2 mg/m³ France VME (mg/m³) 0,1 mg/m³ Greece OEL TWA (mg/m³) 0,1 mg/m³ Greece OEL STEL (mg/m³) 0,2 mg/m³ France VE-frék 0,4 mg/m³ Hungary AK-érték 0,4 mg/m³ Hungary OEL chemical category (HU) Potential for cutaneous absorption France OEL (8 hours ref) (mg/m³) 0,1 mg/m³ Ireland OEL (15 min ref) (mg/m³) 0,1 mg/m³ Lithuania TPRV (mg/m³) 0,1 mg/m³ Lithuania TPRV (mg/m³) 0,1 mg/m³ Lithuania OEL chemical category (LT) Skin notation Norway Grenseverdier (Korttidsverdi) (mg/m³) 0,1 mg/m³ Portugal OEL STEL (mg/m³) 0,2 mg/m³ Portugal OEL STEL (mg/m³) 0,1 mg/m³ Portugal OEL STEL (mg/m³) 0,1 mg/m³ Portugal OEL STEL (mg/m³) 0,2 mg/m³ Romania OEL STEL (mg/m³) 0,1 mg/m³ Portugal OEL STEL (mg/m³) 0,1 mg/m³ Portugal OEL STEL (mg/m³) 0,1 mg/m³ Portugal OEL STEL (mg/m³) 0,1 mg/m³ Romania OEL STEL (mg/m³) 0,1 mg/m³ Romania OEL STEL (mg/m³) 0,15 mg/m³ Slovakia NPHV (priemerná) (mg/m³) 0,15 mg/m³	Czech Republic	OEL chemical category (CZ)	Potential for cutaneous absorption
Estonia OEL STEL (mg/m²) 0,2 mg/m³  Estonia OEL chemical category (ET) Skin notation  Finland HTP-arvo (8h) (mg/m³) 0,1 mg/m³  Finland HTP-arvo (15 min) 0,3 mg/m³  Finland OEL chemical category (FI) Potential for cutaneous absorption  France VLE (mg/m³) 0,2 mg/m³  France VME (mg/m³) 0,1 mg/m³  Greece OEL TWA (mg/m³) 0,1 mg/m³  Greece OEL STEL (mg/m²) 0,2 mg/m³  Greece OEL STEL (mg/m²) 0,2 mg/m³  Greece OEL STEL (mg/m²) 0,1 mg/m³  Greece OEL STEL (mg/m²) 0,1 mg/m³  Hungary AK-érték 0,1 mg/m³  Hungary CK-érték 0,4 mg/m³  Hungary OEL chemical category (HU) Potential for cutaneous absorption  Ireland OEL (8 hours ref) (mg/m³) 0,1 mg/m³  Ireland OEL (15 min ref) (mg/m³) 0,1 mg/m³  Lithuania IPRV (mg/m³) 0,2 mg/m³  Lithuania IPRV (mg/m³) 0,1 mg/m³  Lithuania TPRV (mg/m³) 0,2 mg/m³  Lithuania OEL chemical category (LT) Skin notation  Norway Grenseverdier (AN) (mg/m³) 0,1 mg/m³  Norway Grenseverdier (Korttidsverdi) (mg/m3) 0,3 mg/m³ (value calculated)  Norway OEL chemical category (NO) Skin notation  OEL TWA (mg/m³) 0,2 mg/m³  Portugal OEL STEL (mg/m²) 0,2 mg/m³  Portugal OEL STEL (mg/m²) 0,2 mg/m³  Portugal OEL STEL (mg/m²) 0,2 mg/m³  Romania OEL STEL (mg/m²) 0,05 mg/m³  Romania OEL STEL (mg/m²) 0,15 mg/m³  Slovakia NPHV (priemerná) (mg/m³) 0,1 mg/m³	Denmark	Grænseværdie (langvarig) (mg/m³)	, , , , , , , , , , , , , , , , , , ,
Estonia OEL chemical category (ET) Skin notation  Finland HTP-arvo (8h) (mg/m³) 0,1 mg/m³  Finland HTP-arvo (15 min) 0,3 mg/m³  Finland OEL chemical category (FI) Potential for cutaneous absorption  France VLE (mg/m³) 0,2 mg/m³  France VME (mg/m³) 0,1 mg/m³  Greece OEL TWA (mg/m³) 0,1 mg/m³  Greece OEL STEL (mg/m³) 0,2 mg/m³  Greece OEL STEL (mg/m³) 0,2 mg/m³  Greece OEL chemical category (GR) skin - potential for cutaneous absorption  Hungary AK-érték 0,1 mg/m³  Hungary OEL chemical category (HU) Potential for cutaneous absorption  Ireland OEL (8 hours ref) (mg/m³) 0,1 mg/m³  Ireland OEL (15 min ref) (mg/m³) 0,1 mg/m³  Lithuania IPRV (mg/m³) 0,1 mg/m³  Lithuania IPRV (mg/m³) 0,2 mg/m³  Lithuania OEL chemical category (LT) Skin notation  Norway Grenseverdier (AN) (mg/m³) 0,1 mg/m³  Norway OEL chemical category (NO) Skin notation  Norway OEL chemical category (NO) Skin notation  Portugal OEL TWA (mg/m³) 0,2 mg/m³  Portugal OEL STEL (mg/m³) 0,2 mg/m³  Portugal OEL STEL (mg/m³) 0,2 mg/m³  Romania OEL TWA (mg/m³) 0,2 mg/m³  Romania OEL STEL (mg/m³) 0,05 mg/m³  Romania OEL STEL (mg/m³) 0,15 mg/m³  Slovakia NPHV (priemerná) (mg/m³) 0,1 mg/m³	Estonia	OEL TWA (mg/m³)	0,1 mg/m³
Estonia OEL chemical category (ET) Skin notation  Finland HTP-arvo (8h) (mg/m³) 0,1 mg/m³  Finland HTP-arvo (15 min) 0,3 mg/m³  Finland OEL chemical category (FI) Potential for cutaneous absorption  France VLE (mg/m³) 0,2 mg/m³  France VME (mg/m³) 0,1 mg/m³  Greece OEL TWA (mg/m³) 0,1 mg/m³  Greece OEL STEL (mg/m³) 0,2 mg/m³  Greece OEL STEL (mg/m³) 0,2 mg/m³  Greece OEL chemical category (GR) skin - potential for cutaneous absorption  Hungary AK-érték 0,1 mg/m³  Hungary OEL chemical category (HU) Potential for cutaneous absorption  Ireland OEL (8 hours ref) (mg/m³) 0,1 mg/m³  Ireland OEL (15 min ref) (mg/m³) 0,1 mg/m³  Lithuania IPRV (mg/m³) 0,1 mg/m³  Lithuania IPRV (mg/m³) 0,2 mg/m³  Lithuania OEL chemical category (LT) Skin notation  Norway Grenseverdier (AN) (mg/m³) 0,1 mg/m³  Norway OEL chemical category (NO) Skin notation  Norway OEL chemical category (NO) Skin notation  Portugal OEL TWA (mg/m³) 0,2 mg/m³  Portugal OEL STEL (mg/m³) 0,2 mg/m³  Portugal OEL STEL (mg/m³) 0,2 mg/m³  Romania OEL TWA (mg/m³) 0,2 mg/m³  Romania OEL STEL (mg/m³) 0,05 mg/m³  Romania OEL STEL (mg/m³) 0,15 mg/m³  Slovakia NPHV (priemerná) (mg/m³) 0,1 mg/m³	Estonia	OEL STEL (mg/m³)	0,2 mg/m³
Finland HTP-arvo (8h) (mg/m³) 0,1 mg/m³ Finland HTP-arvo (15 min) 0,3 mg/m³ Finland OEL chemical category (FI) Potential for cutaneous absorption France VLE (mg/m³) 0,2 mg/m³ France VME (mg/m³) 0,1 mg/m³ Greece OEL TWA (mg/m³) 0,1 mg/m³ Greece OEL STEL (mg/m³) 0,2 mg/m³ Greece OEL STEL (mg/m³) 0,2 mg/m³ Greece OEL chemical category (GR) skin - potential for cutaneous absorption Hungary AK-érték 0,1 mg/m³ Hungary CK-érték 0,4 mg/m³ Hungary OEL chemical category (HU) Potential for cutaneous absorption Ireland OEL (8 hours ref) (mg/m³) 0,2 mg/m³ Ireland OEL (15 min ref) (mg/m³) 0,1 mg/m³ Ireland IPRV (mg/m³) 0,1 mg/m³ Lithuania IPRV (mg/m³) 0,1 mg/m³ Lithuania TPRV (mg/m³) 0,2 mg/m³ Lithuania OEL chemical category (LT) Skin notation Norway Grenseverdier (AN) (mg/m³) 0,1 mg/m³ Norway OEL chemical category (NO) Skin notation Portugal OEL TWA (mg/m³) 0,1 mg/m³ Portugal OEL STEL (mg/m³) 0,2 mg/m³ Portugal OEL STEL (mg/m³) 0,2 mg/m³ Romania OEL STEL (mg/m³) 0,2 mg/m³ Romania OEL STEL (mg/m³) 0,2 mg/m³ Romania OEL STEL (mg/m³) 0,1 mg/m³ Romania OEL STEL (mg/m³) 0,15 mg/m³ Romania OEL STEL (mg/m³) 0,15 mg/m³	Estonia		<u> </u>
Finland HTP-arvo (15 min) 0,3 mg/m³ Finland OEL chemical category (FI) Potential for cutaneous absorption France VLE (mg/m³) 0,2 mg/m³ France VME (mg/m³) 0,1 mg/m³ Greece OEL TWA (mg/m³) 0,1 mg/m³ Greece OEL STEL (mg/m³) 0,2 mg/m³ Greece OEL chemical category (GR) skin - potential for cutaneous absorption Hungary AK-érték 0,1 mg/m³ Hungary CK-érték 0,4 mg/m³ Hungary OEL chemical category (HU) Potential for cutaneous absorption Ireland OEL (8 hours ref) (mg/m³) 0,1 mg/m³ Ireland OEL (15 min ref) (mg/m³) 0,2 mg/m³ Lithuania IPRV (mg/m³) 0,1 mg/m³ Lithuania IPRV (mg/m³) 0,2 mg/m³ Lithuania OEL chemical category (LT) Skin notation Norway Grenseverdier (AN) (mg/m²) 0,1 mg/m³ Norway Grenseverdier (Korttidsverdi) (mg/m3) 0,3 mg/m³ (value calculated) Norway OEL chemical category (NO) Skin notation Portugal OEL STEL (mg/m³) 0,2 mg/m³ Portugal OEL STEL (mg/m³) 0,2 mg/m³ Portugal OEL Chemical category (PT) A4 - Not Classifiable as a Human Carcinogen,skin - potential for cutaneous exposure Romania OEL STEL (mg/m³) 0,0,5 mg/m³ Romania OEL STEL (mg/m³) 0,15 mg/m³ Slovakia NPHV (priemerná) (mg/m³) 0,1 mg/m³	Finland		0,1 mg/m³
France VLE (mg/m³) 0,2 mg/m³ France VME (mg/m³) 0,1 mg/m³ Greece OEL TWA (mg/m³) 0,1 mg/m³ Greece OEL STEL (mg/m³) 0,2 mg/m³ Greece OEL STEL (mg/m³) 0,2 mg/m³ Greece OEL chemical category (GR) skin - potential for cutaneous absorption Hungary AK-érték 0,1 mg/m³ Hungary CK-érték 0,4 mg/m³ Hungary OEL chemical category (HU) Potential for cutaneous absorption Ireland OEL (8 hours ref) (mg/m³) 0,1 mg/m³ Ireland OEL (15 min ref) (mg/m³) 0,1 mg/m³ Lithuania IPRV (mg/m³) 0,1 mg/m³ Lithuania TPRV (mg/m³) 0,2 mg/m³ Lithuania OEL chemical category (LT) Skin notation Norway Grenseverdier (AN) (mg/m³) 0,1 mg/m³ Norway Grenseverdier (Korttidsverdi) (mg/m3) 0,3 mg/m³ (value calculated) Norway OEL chemical category (NO) Skin notation Portugal OEL STEL (mg/m³) 0,1 mg/m³ Portugal OEL STEL (mg/m³) 0,2 mg/m³ Romania OEL STEL (mg/m³) 0,05 mg/m³ Romania OEL STEL (mg/m³) 0,15 mg/m³ Slovakia NPHV (priemerná) (mg/m³) 0,1 mg/m³	Finland	HTP-arvo (15 min)	<u> </u>
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Slovakia NPHV (priemerná) (mg/m³) 0,1 mg/m³	Romania	OEL STEL (mg/m³)	
Slovakia NPHV (Hraničná) (ma/m³) 0.2 ma/m³	Slovakia		
JOYANA   MITTY (MICHA) (MIG/III)   U,Z MIG/III	Slovakia	NPHV (Hraničná) (mg/m³)	0,2 mg/m³

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Slovakia	OEL chemical category (SK)	Potential for cutaneous absorption
Spain	VLA-ED (mg/m³)	0,1 mg/m³
Spain	VLA-EC (mg/m³)	0,2 mg/m³
Spain	OEL chemical category (ES)	skin - potential for cutaneous absorption
Sweden	nivågränsvärde (NVG) (mg/m³)	0,1 mg/m³ (total dust)
Sweden	kortidsvärde (KTV) (mg/m³)	0,2 mg/m³ (total dust)
Sweden	OEL chemical category (SE)	Skin notation
Switzerland	KZGW (mg/m³)	0,2 mg/m³ (inhalable dust)
Switzerland	MAK (mg/m³)	0,1 mg/m³ (inhalable dust)
Switzerland	OEL chemical category (CH)	Skin notation
United Kingdom	WEL TWA (mg/m³)	0,1 mg/m³ (except Cyhexatin)
United Kingdom	WEL STEL (mg/m³)	0,2 mg/m³ (except Cyhexatin)
United Kingdom	WEL chemical category	Potential for cutaneous absorption except Cyhexatin

#### 8.2. Exposure Controls

Appropriate Engineering Controls

Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Take precautionary measures against static discharges. Use explosion-proof equipment. Proper grounding procedures to avoid static electricity should be followed. Gas detectors should be used when flammable gases/vapours may be released.

Personal Protective Equipment

Protective clothing. Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection.









Materials for Protective Clothing

Hand Protection
Eye Protection
Skin and Body Protection
Respiratory Protection

Wear fire/flame resistant/retardant clothing. Chemically resistant materials and fabrics.

Wear protective gloves. Chemical safety goggles.

Wear suitable protective clothing.

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory

protection.

Other Information When using, do not eat, drink or smoke.

## **SECTION 9: Physical and Chemical Hazards**

#### 9.1. Information on Basic Physical and Chemical Properties

Physical State Liquid
Colour White
Odour Solvent

Odour Threshold No data available

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Recording to Regulation (Ee) 116. 1767/2000 (RE/Cen) Will his amendment Regul	alien (20) 2010/000
рН	No data available
Evaporation Rate	No data available
Melting Point	No data available
Freezing Point	No data available
Boiling Point	140 °C (284 °F)
Flash Point	27 °C (81 °F)
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Flammability (Solid, Gas)	Not applicable
Vapour Pressure	No data available
Relative Vapour Density At 20 °C	No data available
Relative Density	> 1 (water=1)
Solubility	No data available
Partition Coefficient n-Octanol/Water	No data available
Viscosity, Kinematic	No data available
Viscosity, Dynamic	No data available
Explosive Properties	No data available
Oxidising Properties	No data available
Explosive Limits	No data available

#### 9.2. Other Information

VOC content 10 - 30 %

## **SECTION 10: Stability and Reactivity**

### 10.1. Reactivity

Reacts violently with strong oxidisers. Increased risk of fire or explosion.

#### 10.2. Chemical Stability

Flammable liquid and vapour. May form flammable or explosive vapour-air mixture.

#### 10.3. Possibility Of Hazardous Reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions To Avoid

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

#### 10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

#### 10.6. Hazardous Decomposition Products

Thermal decomposition may produce: Silicon oxides. Carbon oxides (CO, CO<sub>2</sub>). Hydrocarbons. Smoke. Oxides of tin.

## **SECTION 11: Toxicological Information**

#### 11.1. Information On Toxicological Effects

Acute Toxicity

Not classified (Based on available data, the classification criteria are not met)

	,
2-Butanone, O,O',O"-(methylsilylidyne)trioxime (22984-54-9)	
LD50 Oral Rat	2463 mg/kg
LD50 Dermal Rat	> 2000 mg/kg
ATE CLP (oral)	2463 mg/kg bodyweight
Octamethylcyclotetrasiloxane (556-67-2)	
LD50 Oral Rat	1540 mg/kg

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According to Regulation (EC) No. 1907/2006 (REACH) With its d	According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/650		
Octamethylcyclotetrasiloxane (556-67-2)			
LD50 Dermal Rabbit	794 μl/kg		
LC50 Inhalation Rat	36 g/m³ (Exposure time: 4 h)		
Decamethylcyclopentasiloxane	(541-02-6)		
LD50 Oral Rat	> 5000 mg/kg (Species: Sprague-Dawley)		
LD50 Dermal Rabbit	> 2000 mg/kg (Species: New Zealand White) No deaths reported		
LC50 Inhalation Rat	8,67 mg/I/4h (Species: Fischer)		
Dodecamethylcyclohexasiloxan	e (540-97-6)		
LD50 Oral Rat	> 50 g/kg		
Dibutyltin dilaurate (77-58-7)			
LD50 Oral	175 mg/kg		
LD50 Dermal Rat	> 2 g/kg		
Titanium dioxide (13463-67-7)			
LD50 Oral Rat	> 10000 mg/kg		
Reaction mass of ethylbenzene of (REACH Registration No.) 01-2119			
LD50 Oral Rat	3523 mg/kg		
LC50 Inhalation Rat	6700 ppm/4h		
ATE CLP (oral)	3523 mg/kg bodyweight		
ATE CLP (dermal)	1100 mg/kg bodyweight		
ATE CLP (gases)	6700 ppmv/4h		
ATE CLP (vapours)	11 mg/l/4h		
Skin Corrosion/Irritation Eye Damage/Irritation Respiratory or Skin Sensitization Germ Cell Mutagenicity	Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Not classified (Based on available data, the classification criteria are not met)		
Carcinogenicity	Not classified (Based on available data, the classification criteria are not met)		
Reproductive Toxicity	Not classified (Based on available data, the		

classification criteria are not met)

Specific Target Organ Toxicity (Single Exposure)

May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated May cause damage to organs through Exposure) prolonged or repeated exposure.

Aspiration Hazard May be fatal if swallowed and enters airways.

## **SECTION 12: Ecological Information**

#### 12.1. Toxicity

Ecology - General Not classified.

2-Butanone, O,O',O''-(methylsilylidyne)trioxime (22984-54-9)		
EC50 Daphnia 1 120 mg/l (Exposure time: 48h - Species: Daphnia magna)		
Dibutyltin dilaurate (77-58-7)		
EC50 Daphnia 1 0,463 mg/l (Daphnia magna)		
Octamethylcyclotetrasiloxane (556-67-2)		

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Octamethylcyclotetrasiloxane (556-67-2)		
LC50 Fish 1	> 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)	
LC50 Fish 2	> 1000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)	
Titanium dioxide (13463-67	7-7)	
LC50 Fish 1	> 1000 ml/l (Exposure Time: 96h - Species: Pimephales promelas (static)	

#### 12.2. Persistence and Degradability

R-1008-1	
Persistence and Degradability	Not established.

#### 12.3. Bioaccumulative Potential

R-1008-1		
Bioaccumulative potential	Not established.	
Octamethylcyclotetrasiloxane (556-67-2)		
BCF Fish 1	12400	
Log Pow	5,1	
Dibutyltin dilaurate (77-58-7)		
Log Pow	4,44	

#### 12.4. Mobility in Soil

No additional information available

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

Octamethylcyclotetrasiloxane (556-67-2)	
This substance/mixture meets the PBT criteria of REACH regulation, annex XIII	
This substance/mixture meets the vPvB criteria of REACH regulation, annex XIII	
Decamethylcyclopentasiloxane (541-02-6)	
This substance/mixture meets the vPvB criteria of REACH regulation, annex XIII	
Dodecamethylcyclohexasiloxane (540-97-6)	
This substance/mixture meets the vPvB criteria of REACH regulation, annex XIII	

#### 12.6. Other Adverse Effects

Other Information Avoid release to the environment.

## **SECTION 13: Disposal Considerations**

#### 13.1. Waste Treatment Methods

Product/Packaging Disposal Dispose of waste material in accordance with all local,

Recommendations regional, national, and international regulations.

Additional Information Handle empty containers with care because residual vapours

are flammable.

Ecology - Waste Materials Avoid release to the environment.

## **SECTION 14: Transport Information**

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

In accordance with ADR / RID / IMDG / IATA / ADN

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#### Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ADR	IMDG	IATA	ADN	RID
14.1. UN Number				
1307	1307	1307	1307	1307
14.2. UN Proper S	14.2. UN Proper Shipping Name			
XYLENES	XYLENES	XYLENES	XYLENES	XYLENES
(Solution)	(Solution)	(Solution)	(Solution)	(Solution)
14.3. Transport H	azard Class(Es)			
3	3	3	3	3
3				3
14.4. Packing Gr	oup			
III	III	III	III	III
14.5. Environmental Hazards				
Dangerous for	Dangerous for	Dangerous for	Dangerous for	Dangerous for
the environment:	the environment:	the environment:	the environment:	the environment :
No	No	No	No	No
	Marine pollutant :			
	No			

### 14.6. Special Precautions For User

No additional information available

### 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

#### 15.1.1. EU-Regulations

Contains a substance on the REACH candidate list in concentration ≥ 0.1% or with a lower specific limit:

Octamethylcyclotetrasiloxane (D4) (EC 209-136-7, CAS 556-67-2)

Decamethylcyclopentasiloxane (D5) (EC 208-764-9, CAS 541-02-6)

Dodecamethylcyclohexasiloxane (D6) (EC 208-762-8, CAS 540-97-6)

Contains no REACH Annex XIV substances

#### 15.1.2. National Regulations

No additional information available

#### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other Information**

#### Indication of Changes

Section	Section Header	Change	Date Changed
1	Identification of the Substance/mixture and of the	Modified	06/04/2020
	Company/Undertaking		
2	Classification According to Regulation (EC) No. 1272/2008 [CLP]	Modified	06/04/2020
3	Composition/information on ingredients	Modified	06/04/2020

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11	Toxicological Information	Modified	06/04/2020
12	Ecological Information	Modified	06/04/2020
15	Regulatory Information	Modified	06/04/2020

Date of Preparation or Latest

06/04/2020

Revision

Data Sources Information and data obtained and used in the authoring of

this safety data sheet could come from database subscriptions,

official government regulatory body websites,

product/ingredient manufacturer or supplier specific

information, and/or resources that include substance specific data and classifications according to GHS or their subsequent

adoption of GHS.

Other Information According to Regulation (EC) No. 1907/2006 (REACH) with its

amendment Regulation (EU) 2015/830

#### Full Text of H- and EUH-statements:

II TEXT OF TE GITA LOTESTATE	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4	Acute toxicity (inhalation:vapour) Category 4
(Inhalation:vapour)	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 1	Specific target organ toxicity — Single exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3,
	Respiratory tract irritation
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H360	May damage fertility or the unborn child.
H370	Causes damage to organs.

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H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated
	exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists ADN – European Agreement Concerning the International Carriage of Dangerous

Goods by Inland Waterways ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

ATE - Acute Toxicity Estimate BCF - Bioconcentration Factor BEI - Biological Exposure Indices (BEI) BOD - Biochemical Oxygen Demand

CAS No. - Chemical Abstracts Service Number

CLP - Classification, Labeling and Packaging Regulation (EC) No 1272/2008

COD - Chemical Oxygen Demand – European Community

EC50 - Median Effective Concentration EEC - European Economic Community

EINECS – European Inventory of Existing Commercial Chemical Substances EmS-No. (Fire) - IMDG Emergency Schedule Fire

EmS-No. (Spillage) - IMDG Emergency Schedule Spillage

EU - European Union

ErC50 - EC50 in Terms of Reduction Growth Rate

GHS – Globally Harmonized System of Classification and Labeling of Chemicals

IARC - International Agency for Research on Cancer IATA - International Air Transport Association IBC Code - International Bulk Chemical Code

IMDG - International Maritime Dangerous Goods IPRV - Ilgalaikio Poveikio Ribinis Dydis

IOELV – Indicative Occupational Exposure Limit Value LC50 - Median Lethal Concentration

LD50 - Median Lethal Dose

LOAEL - Lowest Observed Adverse Effect Level

LOEC - Lowest-Observed-Effect Concentration

Log Koc - Soil Organic Carbon-water Partitioning Coefficient Log Kow - Octanol/water Partition Coefficient

Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a twophase system consisting of two largely immiscible solvents, in this case octanol and

MAK - Maximum Workplace Concentration/Maximum Permissible Concentration

MARPOL - International Convention for the Prevention of Pollution

NDS - Naiwyzsze Dopuszczalne Stezenie

NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe

NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe

NOAEL - No-Observed Adverse Effect Level

NOEC - No-Observed Effect Concentration

NRD - Nevirsytinas Ribinis Dydis

NTP - National Toxicology Program OEL - Occupational Exposure Limits

PBT - Persistent, Bioaccumulative and Toxic

PEL - Permissible Exposure Limit

pH – Potential Hydrogen

REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals

RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail

SADT - Self Accelerating Decomposition Temperature

SDS - Safety Data Sheet

STEL - Short Term Exposure Limit

STOT - Specific Target Organ Toxicity

TA-Luft - Technische Anleitung zur Reinhaltung der Luft

TEL TRK - Technical Guidance Concentrations

ThOD - Theoretical Oxygen Demand

TLM - Median Tolerance Limit

TIV - Threshold Limit Value

TPRD - Trumpalaikio Poveikio Ribinis Dydis

TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in

ortsbeweglichen Behältern

TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine

TRGS 900 - Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average VOC – Volatile Organic Compounds

VLA-EC - Valor Límite Ambiental Exposición de Corta Duración

VLA-ED - Valor Límite Ambiental Exposición Diaria

VLE – Valeur Limite D'exposition

VMF - Valeur Limite De Movenne Exposition

vPvB - Very Persistent and Very Bioaccumulative

WEL – Workplace Exposure Limit WGK - Wassergefährdungsklasse

Nusil FU GHS SDS

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