

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

### 1.1. Product identifier

<b>Trade name or designation of the mixture</b>	THOR 30 ADTECH
<b>Registration number</b>	-
<b>Synonyms</b>	None.
<b>Brand Code</b>	7307
<b>Issue date</b>	24-March-2021
<b>Version number</b>	01

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

<b>Identified uses</b>	For Industrial or Professional Use Only
<b>Uses advised against</b>	Avoid dry cutting, blasting, or dust generation.

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

#### Supplier

<b>Company name</b>	HarbisonWalker International Limited	
<b>Address</b>	Dock Road South Bromborough Wirral UK	
<b>Division</b>	United Kingdom	
<b>Telephone</b>	General Phone:	44.(0)151.641.5900
<b>e-mail</b>	REACH@thinkhwi.com	
<b>Contact person</b>	HWI USA	

<b>1.4. Emergency telephone number</b>	+44 (0)151 641 5900	(Office hours 07:30 - 17:00)
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

<b>Hazard summary</b>	Prolonged exposure may cause chronic effects. Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.
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### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

<b>Hazard pictograms</b>	None.
<b>Signal word</b>	None.
<b>Hazard statements</b>	The mixture does not meet the criteria for classification.

#### Precautionary statements

<b>Prevention</b>	Observe good industrial hygiene practices.
<b>Response</b>	Wash hands after handling.
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	Dispose of waste and residues in accordance with local authority requirements.

<b>Supplemental label information</b>	None.
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<b>2.3. Other hazards</b>	Not a PBT or vPvB substance or mixture.
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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

## General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Mullite	30 - 50	1302-93-8 215-113-2	-	-	
<b>Classification:</b>	-				
Cement, Alumina, Chemicals	2,5 - 10	65997-16-2 266-045-5	-	-	
<b>Classification:</b>	-				
Other components below reportable levels	50 - 70				

### List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).  
M: M-factor  
PBT: persistent, bioaccumulative and toxic substance.  
vPvB: very persistent and very bioaccumulative substance.

Crystalline silica may be present at low concentrations; most of this is encapsulated in the coarse aggregate or as part of the clays or sands.

## SECTION 4: First aid measures

**General information** Not available.

### 4.1. Description of first aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.  
**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.  
**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.  
**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

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

Coughing.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

**General fire hazards** Not available.

### 5.1. Extinguishing media

**Suitable extinguishing media** Use fire-extinguishing media appropriate for surrounding materials.  
**Unsuitable extinguishing media** Not available.

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

Not available.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Not available.  
**Special fire fighting procedures** Not available.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.  
**For emergency responders** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

### 6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

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

Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

#### 6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure.

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

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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

Not available.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	MAK	4 mg/m <sup>3</sup>	Inhalable fraction.
Fumes, Silica (CAS 69012-64-2)	MAK	0,3 mg/m <sup>3</sup>	Respirable fraction.
Silicon carbide (CAS 409-21-2)	MAK	5 mg/m <sup>3</sup>	Respirable fraction.
	STEL	10 mg/m <sup>3</sup>	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	MAK	5 mg/m <sup>3</sup>	Respirable dust.
	STEL	10 mg/m <sup>3</sup>	Respirable dust.

##### Belgium. Exposure Limit Values.

Components	Type	Value
Amorphous silica (CAS 7631-86-9)	TWA	10 mg/m <sup>3</sup>
Silicon carbide (CAS 409-21-2)	TWA	10 mg/m <sup>3</sup>
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m <sup>3</sup>

##### Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	TWA	10 mg/m <sup>3</sup>	Inhalable fraction.
		0,07 mg/m <sup>3</sup>	Respirable fraction.
Fumes, Silica (CAS 69012-64-2)	TWA	10 mg/m <sup>3</sup>	Inhalable fraction.
		0,07 mg/m <sup>3</sup>	Respirable fraction.
Kyanite (CAS 1302-76-7)	TWA	2 mg/m <sup>3</sup>	
Mullite (CAS 1302-93-8)	TWA	2 mg/m <sup>3</sup>	
Silicon carbide (CAS 409-21-2)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m <sup>3</sup>	Respirable dust.

##### Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	MAC	6 mg/m <sup>3</sup>	Total dust.
		0,1 mg/m <sup>3</sup>	Respirable dust.
Fumes, Silica (CAS 69012-64-2)	MAC	6 mg/m <sup>3</sup>	Total dust.
		0,1 mg/m <sup>3</sup>	Respirable dust.

**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Silicon carbide (CAS 409-21-2)	MAC	4 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Total dust.
Titanium dioxide (CAS 13463-67-7)	MAC	4 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Total dust.

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Amorphous silica (CAS 7631-86-9)	TWA	2 mg/m <sup>3</sup>
Fumes, Silica (CAS 69012-64-2)	TWA	2 mg/m <sup>3</sup>
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m <sup>3</sup>

**Czech Republic. OELs. Government Decree 361**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Amorphous silica (CAS 7631-86-9)	TWA	4 mg/m <sup>3</sup>	Dust.
Fumes, Silica (CAS 69012-64-2)	TWA	4 mg/m <sup>3</sup>	Dust.
Silicon carbide (CAS 409-21-2)	TWA	5 mg/m <sup>3</sup>	Dust.
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m <sup>3</sup>	Dust.

**Denmark. Exposure Limit Values**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Fumes, Silica (CAS 69012-64-2)	TLV	2 mg/m <sup>3</sup>	Respirable.
Titanium dioxide (CAS 13463-67-7)	TLV	6 mg/m <sup>3</sup>	

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Amorphous silica (CAS 7631-86-9)	TWA	2 mg/m <sup>3</sup>	Fine dust, respiratory fraction
Fumes, Silica (CAS 69012-64-2)	TWA	2 mg/m <sup>3</sup>	Fine dust, respiratory fraction
Kyanite (CAS 1302-76-7)	TWA	2 mg/m <sup>3</sup>	
Mullite (CAS 1302-93-8)	TWA	2 mg/m <sup>3</sup>	
Silicon carbide (CAS 409-21-2)	TWA	5 mg/m <sup>3</sup>	Fine dust, respiratory fraction
		10 mg/m <sup>3</sup>	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m <sup>3</sup>	

**Finland. Workplace Exposure Limits**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Amorphous silica (CAS 7631-86-9)	TWA	5 mg/m <sup>3</sup>	
Fumes, Silica (CAS 69012-64-2)	TWA	5 mg/m <sup>3</sup>	
Kyanite (CAS 1302-76-7)	TWA	2 mg/m <sup>3</sup>	
Mullite (CAS 1302-93-8)	TWA	2 mg/m <sup>3</sup>	

**Finland. Workplace Exposure Limits Components**

Components	Type	Value	Form
Silicon carbide (CAS 409-21-2)	TWA	0,1 fibers/cm3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Dust.

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value	Form
Silicon carbide (CAS 409-21-2)	VME	10 mg/m3	
<b>Regulatory status:</b> Indicative limit (VL)			
Titanium dioxide (CAS 13463-67-7)	VME	10 mg/m3	
<b>Regulatory status:</b> Indicative limit (VL)			

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	TWA	4 mg/m3	Inhalable fraction.
Fumes, Silica (CAS 69012-64-2)	TWA	0,3 mg/m3	Respirable fraction.
Silicon carbide (CAS 409-21-2)	TWA	4 mg/m3	Inhalable dust.
		0,3 mg/m3	Respirable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	0,3 mg/m3	Respirable fraction.

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	AGW	4 mg/m3	Inhalable fraction.
Fumes, Silica (CAS 69012-64-2)	AGW	0,3 mg/m3	Respirable fraction.
Silicon carbide (CAS 409-21-2)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value	Form
Silicon carbide (CAS 409-21-2)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Inhalable
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Inhalable

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value	Form
Silicon carbide (CAS 409-21-2)	TWA	6 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	6 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
		0,5 mg/m3	Dust.
Fumes, Silica (CAS 69012-64-2)	TWA	2 mg/m3	Respirable mist.
Kyanite (CAS 1302-76-7)	TWA	2 mg/m3	
Mullite (CAS 1302-93-8)	TWA	2 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	6 mg/m3	

**Ireland. Occupational Exposure Limits**

Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	TWA	6 mg/m3	Total inhalable dust.
		2,4 mg/m3	Respirable dust.
Fumes, Silica (CAS 69012-64-2)	TWA	6 mg/m3	Total inhalable dust.
		2,4 mg/m3	Respirable dust.
Silicon carbide (CAS 409-21-2)	TWA	0,1 fibers/cm3	Respirable dust.
		3 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.

**Italy. Occupational Exposure Limits**

Components	Type	Value	Form
Kyanite (CAS 1302-76-7)	TWA	1 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
Silicon carbide (CAS 409-21-2)	TWA	0,1 fibers/cm3	Fiber.
		3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value
Amorphous silica (CAS 7631-86-9)	TWA	1 mg/m3
Fumes, Silica (CAS 69012-64-2)	TWA	1 mg/m3
Kyanite (CAS 1302-76-7)	TWA	2 mg/m3
Silicon carbide (CAS 409-21-2)	TWA	6 mg/m3
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value	Form
Kyanite (CAS 1302-76-7)	TWA	1 mg/m3	
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	
Silicon carbide (CAS 409-21-2)	TWA	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value	Form
Titanium dioxide (CAS 13463-67-7)	TWA	1 mg/m <sup>3</sup>	Dust.
		5 mg/m <sup>3</sup>	

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	TLV	1,5 mg/m <sup>3</sup>	Respirable dust.
Fumes, Silica (CAS 69012-64-2)	TLV	1,5 mg/m <sup>3</sup>	Respirable dust.
Silicon carbide (CAS 409-21-2)	TLV	0,1 fibers/cm <sup>3</sup>	Fiber.
Titanium dioxide (CAS 13463-67-7)	TLV	0,5 mg/m <sup>3</sup>	Respirable dust.
		5 mg/m <sup>3</sup>	

**Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817**

Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	TWA	2 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.
Silicon carbide (CAS 409-21-2)	TWA	10 mg/m <sup>3</sup>	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	STEL	30 mg/m <sup>3</sup>	
	TWA	10 mg/m <sup>3</sup>	Inhalable fraction.

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value	Form
Kyanite (CAS 1302-76-7)	TWA	1 mg/m <sup>3</sup>	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m <sup>3</sup>	Respirable fraction.
Silicon carbide (CAS 409-21-2)	TWA	0,1 fibers/cm <sup>3</sup>	Respirable fibers.
		3 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m <sup>3</sup>	

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
Titanium dioxide (CAS 13463-67-7)	STEL	15 mg/m <sup>3</sup>
	TWA	10 mg/m <sup>3</sup>

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	TWA	0,3 mg/m <sup>3</sup>	
Fumes, Silica (CAS 69012-64-2)	TWA	0,3 mg/m <sup>3</sup>	
Silicon carbide (CAS 409-21-2)	TWA	4 mg/m <sup>3</sup>	Inhalable fraction.
		1,5 mg/m <sup>3</sup>	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m <sup>3</sup>	

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	TWA	4 mg/m <sup>3</sup>	Inhalable fraction.
Fumes, Silica (CAS 69012-64-2)	TWA	0,3 mg/m <sup>3</sup>	Respirable fraction.
Silicon carbide (CAS 409-21-2)	TWA	10 mg/m <sup>3</sup>	Inhalable fraction.
		1,25 mg/m <sup>3</sup>	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m <sup>3</sup>	Inhalable fraction.
		1,25 mg/m <sup>3</sup>	Respirable fraction.

**Spain. Occupational Exposure Limits**

Components	Type	Value	Form
Silicon carbide (CAS 409-21-2)	TWA	3 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m <sup>3</sup>	

**Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)**

Components	Type	Value	Form
Kyanite (CAS 1302-76-7)	TWA	1 mg/m <sup>3</sup>	Total dust.
Mullite (CAS 1302-93-8)	TWA	1 mg/m <sup>3</sup>	Total dust.
Silicon carbide (CAS 409-21-2)	TWA	0,2 fibers/mL	
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m <sup>3</sup>	Total dust.

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value	Form
Fumes, Silica (CAS 69012-64-2)	TWA	0,3 mg/m <sup>3</sup>	Respirable fume.
Silicon carbide (CAS 409-21-2)	TWA	3 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Inhalable dust.
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m <sup>3</sup>	Respirable dust.

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value	Form
Amorphous silica (CAS 7631-86-9)	TWA	6 mg/m <sup>3</sup>	Inhalable dust.
		2,4 mg/m <sup>3</sup>	Respirable dust.
Fumes, Silica (CAS 69012-64-2)	TWA	6 mg/m <sup>3</sup>	Inhalable dust.
		2,4 mg/m <sup>3</sup>	Respirable dust.
Silicon carbide (CAS 409-21-2)	TWA	4 mg/m <sup>3</sup>	Respirable.
		10 mg/m <sup>3</sup>	Inhalable
Titanium dioxide (CAS 13463-67-7)	TWA	4 mg/m <sup>3</sup>	Respirable.
		10 mg/m <sup>3</sup>	Inhalable

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)** Not available.



**Predicted no effect concentrations (PNECs)**

Not available.

**Exposure guidelines**

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

**8.2. Exposure controls****Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment****General information**

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin protection****- Hand protection**

Wear appropriate chemical resistant gloves.

**- Other**

Wear suitable protective clothing.

**Respiratory protection**

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls**

Environmental manager must be informed of all major releases.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance****Physical state**

Solid.

**Form**

Solid.

**Colour**

Not available.

**Odour**

Not available.

**Odour threshold**

Not available.

**pH**

Not available.

**Melting point/freezing point**

Not available.

**Initial boiling point and boiling range**

Not available.

**Flash point**

Not available.

**Evaporation rate**

Not available.

**Flammability (solid, gas)**

Not available.

**Upper/lower flammability or explosive limits****Flammability limit - lower (%)**

Not available.

**Flammability limit - upper (%)**

Not available.

**Vapour pressure**

Not available.

**Vapour density**

Not available.

**Relative density**

Not available.

**Solubility(ies)****Solubility (water)**

Not available.

**Partition coefficient (n-octanol/water)**

Not available.

<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.
<b>9.2. Other information</b>	No relevant additional information available.

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	Contact with incompatible materials.
<b>10.5. Incompatible materials</b>	Chlorine. Fluorine. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure.
<b>10.6. Hazardous decomposition products</b>	No hazardous decomposition products are known.

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms** Coughing.

### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	Not known.
<b>Skin corrosion/irritation</b>	Due to partial or complete lack of data the classification is not possible.
<b>Serious eye damage/eye irritation</b>	Due to partial or complete lack of data the classification is not possible.
<b>Respiratory sensitisation</b>	Due to partial or complete lack of data the classification is not possible.
<b>Skin sensitisation</b>	Due to partial or complete lack of data the classification is not possible.
<b>Germ cell mutagenicity</b>	Due to partial or complete lack of data the classification is not possible.
<b>Carcinogenicity</b>	In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Risk of cancer cannot be excluded with prolonged exposure.

### **Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)**

Not listed.

<b>Reproductive toxicity</b>	Due to partial or complete lack of data the classification is not possible.
<b>Specific target organ toxicity - single exposure</b>	Due to partial or complete lack of data the classification is not possible.
<b>Specific target organ toxicity - repeated exposure</b>	Due to partial or complete lack of data the classification is not possible.

<b>Aspiration hazard</b>	Due to partial or complete lack of data the classification is not possible.
<b>Mixture versus substance information</b>	No information available.
<b>Other information</b>	This product has no known adverse effect on human health.

## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	Based on available data, the classification criteria are not met for hazardous to the aquatic environment.
<b>12.2. Persistence and degradability</b>	No data is available on the degradability of any ingredients in the mixture.
<b>12.3. Bioaccumulative potential</b>	No data available.
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	No data available.
<b>12.5. Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture. Not available.
<b>12.6. Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Not available.
<b>Contaminated packaging</b>	Not available.
<b>EU waste code</b>	Not available.

## SECTION 14: Transport information

### ADR

14.1. - 14.6.: Not regulated as dangerous goods.

### RID

14.1. - 14.6.: Not regulated as dangerous goods.

### ADN

14.1. - 14.6.: Not regulated as dangerous goods.

### IATA

14.1. - 14.6.: Not regulated as dangerous goods.

### IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## SECTION 15: Regulatory information

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### **Authorisations**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

#### **Restrictions on use**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

#### **Other EU regulations**

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Not listed.

#### **Other regulations**

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

#### **National regulations**

Follow national regulation on the protection of workers from the risks of exposure to carcinogens and mutagens at work, in accordance with Directive 2004/37/EC.

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

No Chemical Safety Assessment has been carried out.

### **SECTION 16: Other information**

#### **List of abbreviations**

Not available.

#### **References**

Not available.

#### **Information on evaluation method leading to the classification of mixture**

Not available.

#### **Full text of any H-statements not written out in full under Sections 2 to 15**

None.

#### **Revision information**

Product and Company Identification: Product and Company Identification

#### **Training information**

Not available.

#### **Disclaimer**

This information is based on our present knowledge on creation date. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.