

# SAFETY DATA SHEET

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

### 1.1. Product identifier

**Trade name or designation of the mixture** Insulcast RTVS 27 HTC - Part A

**Registration number** -

**Synonyms** None.

**SKU#** IS117R

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

**Identified uses** Not available.

**Uses advised against** None known.

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

**Company Name** ITW Performance Polymers

**Address**  
Bay 150  
Shannon Industrial Estate  
Co. Clare  
Ireland  
V14 DF82

**Contact Person** Customer Service

**Telephone Number**  
353(61)771500  
353(61)471285

**Email** customerservice.shannon@itwpp.com

**Emergency Phone Number** 44(0) 1235 239 670 (24 hours)

### 1.4. Emergency telephone number

**General in EU** 112 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Austria National Poisons Information Center** +431 406 4343 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Belgium National Poisons Control Center** 070 245 245 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Bulgaria National Toxicological Information Center** +359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Croatia Poisons Information Center** +385 1 2348 342 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

**Cyprus Poison Center** 1401 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Czech Republic National Poisons Information Center** +420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

**Denmark National Poisons Control Center** +45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**Estonia National Poisons Information Center** 16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be available for the Emergency Service.)

**Finland National Poison Information Center** (09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

**France National Poisons Control Center** ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

#### 1.4. Emergency telephone number

<b>Greece Poison Information Centre</b>	(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Hungary National Emergency Phone Number</b>	+36-80-201-199 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Iceland Poison Center</b>	(+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Latvia Emergency medical aid</b>	113
<b>Latvia Poison and Drug Information Center</b>	+371 67042473 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Lithuania Neatidēliotina informacija apsinuodijus</b>	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
<b>Malta Accident and Emergency Department</b>	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
<b>Netherlands National Poisons Information Center (NVIC)</b>	NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in cases of acute intoxications)
<b>Norway Norwegian Poison Information Center</b>	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Portugal Poison Center</b>	800 250 250 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Romania Biroul RSI si Informare Toxicologica</b>	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)
<b>Slovakia National Toxicological Information Center</b>	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Spain Toxicology Information Service</b>	+ 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Sweden National Poison Information Center</b>	112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
<b>Switzerland Tox Info Suisse</b>	145 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

## 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

##### Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard

Category 3

H412 - Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

**Label according to Regulation (EC) No. 1272/2008 as amended****UFI:**

Austria: 8N35-D11G-U00H-9PF1  
 Belgium: 8N35-D11G-U00H-9PF1  
 Bulgaria: 8N35-D11G-U00H-9PF1  
 Croatia: 8N35-D11G-U00H-9PF1  
 Cyprus: 8N35-D11G-U00H-9PF1  
 Czech Republic: 8N35-D11G-U00H-9PF1  
 Denmark: 8N35-D11G-U00H-9PF1  
 Estonia: 8N35-D11G-U00H-9PF1  
 EU: 8N35-D11G-U00H-9PF1  
 Finland: 8N35-D11G-U00H-9PF1  
 France: 8N35-D11G-U00H-9PF1  
 Germany: 8N35-D11G-U00H-9PF1  
 Greece: 8N35-D11G-U00H-9PF1  
 Hungary: 8N35-D11G-U00H-9PF1  
 Iceland: 8N35-D11G-U00H-9PF1  
 Ireland: 8N35-D11G-U00H-9PF1  
 Italy: 8N35-D11G-U00H-9PF1  
 Latvia: 8N35-D11G-U00H-9PF1  
 Lithuania: 8N35-D11G-U00H-9PF1  
 Luxembourg: 8N35-D11G-U00H-9PF1  
 Malta: 8N35-D11G-U00H-9PF1  
 Netherlands: 8N35-D11G-U00H-9PF1  
 Norway: 8N35-D11G-U00H-9PF1  
 Poland: 8N35-D11G-U00H-9PF1  
 Portugal: 8N35-D11G-U00H-9PF1  
 Romania: 8N35-D11G-U00H-9PF1  
 Slovakia: 8N35-D11G-U00H-9PF1  
 Slovenia: 8N35-D11G-U00H-9PF1  
 Spain: 8N35-D11G-U00H-9PF1  
 Sweden: 8N35-D11G-U00H-9PF1

**Contains:** Aluminium Oxide, Polydimethylsiloxane, Quartz, Silicone Polymer**Hazard pictograms** None.**Signal word** None.**Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements****Prevention**

P273 Avoid release to the environment.

**Response**

Not available.

**Storage**

Not available.

**Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information**

68,37% of the mixture consists of component(s) of unknown acute inhalation toxicity. 98,68% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 98,68% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

**2.3. Other hazards**

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

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

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Aluminium Oxide	60 - 100	1344-28-1 215-691-6	-	-	
<b>Classification: -</b>					
Silicone Polymer	10 - 30	Proprietary	-	-	
<b>Classification: -</b>					

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Polydimethylsiloxane	1 - 5	63148-62-9	-	-	
<b>Classification: -</b>					
Quartz	1 - 5	14808-60-7 238-878-4	-	-	#
<b>Classification: Carc. 1A;H350</b>					
Carbon Black	< 0,2	1333-86-4 215-609-9	-	-	
<b>Classification: Carc. 2;H351</b>					
Other components below reportable levels	< 0,1				

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

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### SECTION 4: First aid measures

<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
<b>4.1. Description of first aid measures</b>	
<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Dusts may irritate the respiratory tract, skin and eyes.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Treat symptomatically.

### SECTION 5: Firefighting measures

<b>General fire hazards</b>	No unusual fire or explosion hazards noted.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>5.2. Special hazards arising from the substance or mixture</b>	During fire, gases hazardous to health may be formed.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Special fire fighting procedures</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

### SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Wear appropriate personal protective equipment.
<b>For emergency responders</b>	Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>6.2. Environmental precautions</b>	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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

Prevent product from entering drains. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

### 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

Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

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

Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

### 7.3. Specific end use(s)

Observe industrial sector guidance on best practices.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

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

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	MAK	5 mg/m <sup>3</sup>	Respirable fume.
		5 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.
	STEL	20 mg/m <sup>3</sup>	Inhalable fraction.
		10 mg/m <sup>3</sup>	Respirable fume.
		10 mg/m <sup>3</sup>	Respirable fraction.
Quartz (CAS 14808-60-7)	MAK	0,05 mg/m <sup>3</sup>	Respirable dust.

#### Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	1 mg/m <sup>3</sup>	Respirable fraction.
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m <sup>3</sup>	
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable dust.

#### Bulgaria. OEL values of carcinogens and mutagens at work (Reg. 10/2003 on prot. from carcinogens and mutagens at work, Ann. 1), as amended

Components	Type	Value	Form
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable fraction and dust

#### Bulgaria. OELs. Ordinance No 13 on protection of workers against risks of exposure to chemical agents at work, as amended

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	10 mg/m <sup>3</sup>	Inhalable fraction.
		1,5 mg/m <sup>3</sup>	Respirable fraction.

#### Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	MAC	4 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Total dust.

**Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	MAC	3,5 mg/m <sup>3</sup>	
	STEL	7 mg/m <sup>3</sup>	
Quartz (CAS 14808-60-7)	MAC	0,1 mg/m <sup>3</sup>	

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

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3,5 mg/m <sup>3</sup>	

**Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended)**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	0,1 mg/m <sup>3</sup>	Respirable dust.
Carbon Black (CAS 1333-86-4)	TWA	10 mg/m <sup>3</sup>	Dust.
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable dust.

**Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TLV	5 mg/m <sup>3</sup>	Total
		2 mg/m <sup>3</sup>	Respirable.
Carbon Black (CAS 1333-86-4)	TLV	3,5 mg/m <sup>3</sup>	
Quartz (CAS 14808-60-7)	TLV	0,3 mg/m <sup>3</sup>	Total
		0,1 mg/m <sup>3</sup>	Respirable.

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	4 mg/m <sup>3</sup>	Fine dust, respiratory fraction
		10 mg/m <sup>3</sup>	Total dust.
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Fine dust, respiratory fraction

**Finland. HTP-arvot, App 3., Binding Limit Values, Social Affairs and Ministry of Health**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	STEL	7 mg/m <sup>3</sup>	
	TWA	3,5 mg/m <sup>3</sup>	
Quartz (CAS 14808-60-7)	TWA	0,05 mg/m <sup>3</sup>	Respirable.

**France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-149 of Labor Code, as amended**

Components	Type	Value	Form
Quartz (CAS 14808-60-7)	VME	0,1 mg/m <sup>3</sup>	Respirable dust.

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

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	VME	10 mg/m <sup>3</sup>	
			<b>Regulatory status:</b> Indicative limit (VL)
Carbon Black (CAS 1333-86-4)	VME	3,5 mg/m <sup>3</sup>	
			<b>Regulatory status:</b> Indicative limit (VL)
Quartz (CAS 14808-60-7)	VME	0,1 mg/m <sup>3</sup>	Respirable fraction.
	<b>Regulatory status:</b>	Regulatory binding (VRC)	

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

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	4 mg/m <sup>3</sup>	Inhalable dust.
		1,5 mg/m <sup>3</sup>	Respirable dust.
Carbon Black (CAS 1333-86-4)	TWA	4 mg/m <sup>3</sup>	Inhalable dust.

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

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	AGW	10 mg/m <sup>3</sup>	Inhalable fraction.
		1,25 mg/m <sup>3</sup>	Respirable fraction.
Carbon Black (CAS 1333-86-4)	AGW	10 mg/m <sup>3</sup>	Inhalable fraction.
		1,25 mg/m <sup>3</sup>	Respirable fraction.

**Greece. OELs, Presidential Decree No. 307/1986, as amended**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	5 mg/m <sup>3</sup>	Respirable.
		10 mg/m <sup>3</sup>	Inhalable
Carbon Black (CAS 1333-86-4)	STEL	7 mg/m <sup>3</sup>	
	TWA	3,5 mg/m <sup>3</sup>	

**Hungary. OELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 1&2, as amended**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	5 mg/m <sup>3</sup>	
		2 mg/m <sup>3</sup>	Respirable.
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m <sup>3</sup>	Inhalable dust.
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable dust.

**Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	10 mg/m <sup>3</sup>	
Carbon Black (CAS 1333-86-4)	TWA	3,5 mg/m <sup>3</sup>	
Quartz (CAS 14808-60-7)	TWA	0,3 mg/m <sup>3</sup>	Total dust.
		0,1 mg/m <sup>3</sup>	Respirable dust.

**Ireland. OELVs, Schedules 1 & 2, Code of Practice for Chemical Agents and Carcinogens Regulations**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	4 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Total inhalable dust.
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m <sup>3</sup>	Inhalable fraction.
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable dust.

**Italy. OELs (Legislative Decree n.81, 9 April 2008), as amended**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m <sup>3</sup>	Inhalable fraction.
Quartz (CAS 14808-60-7)	TWA	0,025 mg/m <sup>3</sup>	Respirable fraction.

**Latvia. OELs. Occupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex 1), as amended**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	6 mg/m <sup>3</sup>	Decomposition aerosol.
		4 mg/m <sup>3</sup>	
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable dust.

**Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	5 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable fraction.

**Luxembourg. Chemical Substances Prohibited at Work (Annex III), G.D.R. of 14 November 2016, OJ Memorial A, n ° 235/2016, as amended**

Components	Type	Value	Form
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable dust.

**Netherlands. OELs per Annex XIII of Working Conditions Regulation (Staatscourant no. 252, 29 December 2006), as amended**

Components	Type	Value	Form
Quartz (CAS 14808-60-7)	TWA	0,075 mg/m <sup>3</sup>	Respirable dust.

**Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TLV	10 mg/m <sup>3</sup>	
Carbon Black (CAS 1333-86-4)	TLV	3,5 mg/m <sup>3</sup>	
Quartz (CAS 14808-60-7)	TLV	0,3 mg/m <sup>3</sup>	Total dust.
		0,05 mg/m <sup>3</sup>	Respirable dust.

**Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	2,5 mg/m <sup>3</sup>	Inhalable fraction.
		1,2 mg/m <sup>3</sup>	Respirable fraction.
Carbon Black (CAS 1333-86-4)	TWA	4 mg/m <sup>3</sup>	Inhalable fraction.
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable fraction.

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014)**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	1 mg/m <sup>3</sup>	Respirable fraction.
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m <sup>3</sup>	Fume.
Quartz (CAS 14808-60-7)	TWA	0,025 mg/m <sup>3</sup>	Respirable fraction.

**Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	STEL	5 mg/m <sup>3</sup>	Aerosol.
	TWA	2 mg/m <sup>3</sup>	Aerosol.



**Slovakia. OELs for carcinogens and mutagens. Regulation No. 356/2006 on carcinogenic and mutagenic substances, as amended**

Components	Type	Value	Form
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable fraction.

**Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	4 mg/m <sup>3</sup>	Inhalable fraction.
		0,1 mg/m <sup>3</sup>	Respirable fraction.
Carbon Black (CAS 1333-86-4)	TWA	2 mg/m <sup>3</sup>	

**Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	10 mg/m <sup>3</sup>	Inhalable fraction.
		1,25 mg/m <sup>3</sup>	Respirable fraction.
Carbon Black (CAS 1333-86-4)	TWA	10 mg/m <sup>3</sup>	Inhalable fraction.
		1,25 mg/m <sup>3</sup>	Respirable fraction.

**Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	10 mg/m <sup>3</sup>	
Carbon Black (CAS 1333-86-4)	TWA	3,5 mg/m <sup>3</sup>	
Quartz (CAS 14808-60-7)	TWA	0,05 mg/m <sup>3</sup>	Respirable fraction.

**Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	5 mg/m <sup>3</sup>	Total dust.
		2 mg/m <sup>3</sup>	Respirable dust.
Carbon Black (CAS 1333-86-4)	TWA	5 mg/m <sup>3</sup>	Inhalable dusts and mists.
		1 mg/m <sup>3</sup>	Inhalable dust.
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable dust.

**Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	STEL	24 mg/m <sup>3</sup>	Respirable dust and/or fume.
	TWA	3 mg/m <sup>3</sup>	Respirable dust and/or fume.
		3 mg/m <sup>3</sup>	Respirable dust.
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Inhalable dust.
Quartz (CAS 14808-60-7)	TWA	0,15 mg/m <sup>3</sup>	Respirable fraction.

**UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1**

Components	Type	Value	Form
Aluminium Oxide (CAS 1344-28-1)	TWA	4 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Inhalable dust.
Carbon Black (CAS 1333-86-4)	STEL	7 mg/m <sup>3</sup>	

**UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1**

Components	Type	Value	Form
	TWA	3,5 mg/m <sup>3</sup>	
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable.

  

EU. OELs, Directive 2004/37/EC on carcinogen and mutagens from Annex III, Part A, as amended			
Components	Type	Value	Form
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable fraction and dust

**Biological limit values****Hungary. BELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 3&4, as amended**

Components	Value	Determinant	Specimen	Sampling Time
Aluminium Oxide (CAS 1344-28-1)	0,25 µmol/mmol	Aluminum	Creatinine in urine	*
	0,06 mg/g	Aluminum	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle BAT-Werte**

Components	Value	Determinant	Specimen	Sampling Time
Aluminium Oxide (CAS 1344-28-1)	50 µg/g	Aluminium	Creatinine in urine	*

\* - For sampling details, please see the source document.

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

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

**Predicted no effect concentrations (PNECs)** Not available.

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

Good general ventilation 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. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn.

**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** Dust mask.

**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** Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

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

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Grey.
<b>Odor</b>	Slight.

<b>Melting point/freezing point</b>	Not available.
<b>Boiling point or initial boiling point and boiling range</b>	Not available.
<b>Flammability</b>	Not applicable.
<b>Flash point</b>	485,0 °F (251,7 °C)
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>pH</b>	Not available.
<b>Kinematic viscosity</b>	Not available.
<b>Solubility</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water) (log value)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Density and/or relative density</b>	
<b>Density</b>	16,55 lb/gal
<b>Vapor density</b>	Not available.
<b>Particle characteristics</b>	Not available.

## 9.2. Other information

**9.2.1. Information with regard to physical hazard classes** No relevant additional information available.

### 9.2.2. Other safety characteristics

<b>Specific gravity</b>	1,99
<b>VOC</b>	0

## 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>	Strong oxidizing agents.
<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>	Dust may irritate respiratory system. Prolonged inhalation may be harmful.
<b>Skin contact</b>	Dust or powder may irritate the skin.
<b>Eye contact</b>	Dust may irritate the eyes.
<b>Ingestion</b>	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms** Dusts may irritate the respiratory tract, skin and eyes.

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

**Acute toxicity** Not known.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Aluminium Oxide (CAS 1344-28-1)		
<u><b>Acute</b></u>		
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
Carbon Black (CAS 1333-86-4)		
<u><b>Acute</b></u>		
<b>Oral</b>		
LD50	Rat	> 8000 mg/kg

<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 sensitization</b>	Due to partial or complete lack of data the classification is not possible.
<b>Skin sensitization</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>	Due to partial or complete lack of data the classification is not possible.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Carbon Black (CAS 1333-86-4)	2B Possibly carcinogenic to humans.
Quartz (CAS 14808-60-7)	1 Carcinogenic to humans.

<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.

#### 11.2. Information on other hazards

<b>Endocrine disrupting properties</b>	This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.
<b>Other information</b>	Not available.

### SECTION 12: Ecological information

<b>12.1. Toxicity</b>	Harmful to aquatic life with long lasting effects. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.
<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>	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.
<b>12.6. Endocrine disrupting properties</b>	This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.
<b>12.7. 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

<b>13.1. Waste treatment methods</b>	
<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping name	Not regulated as dangerous goods.
14.3. Transport hazard class(es)	
Class	Not assigned.
Subsidiary risk	-
Hazard No. (ADR)	Not assigned.
Tunnel restriction code	Not assigned.
14.4. Packing group	-
14.5. Environmental hazards	No.
14.6. Special precautions for user	Not assigned.

### RID

14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping name	Not regulated as dangerous goods.
14.3. Transport hazard class(es)	
Class	Not assigned.
Subsidiary risk	-
14.4. Packing group	-
14.5. Environmental hazards	No.
14.6. Special precautions for user	Not assigned.

### ADN

14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping name	Not regulated as dangerous goods.
14.3. Transport hazard class(es)	
Class	Not assigned.
Subsidiary risk	-
14.4. Packing group	-
14.5. Environmental hazards	No.
14.6. Special precautions for user	Not assigned.

### IATA

14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping name	Not regulated as dangerous goods.
14.3. Transport hazard class(es)	
Class	Not assigned.
Subsidiary risk	-
14.4. Packing group	-
14.5. Environmental hazards	No.
14.6. Special precautions for user	Not assigned.

### IMDG

14.1. UN number	Not regulated as dangerous goods.
14.2. UN proper shipping name	Not regulated as dangerous goods.
14.3. Transport hazard class(es)	
Class	Not assigned.
Subsidiary risk	-
14.4. Packing group	-
14.5. Environmental hazards	
Marine pollutant	No.
EmS	Not assigned.
14.6. Special precautions for user	Not assigned.
14.7. Maritime transport in bulk according to IMO instruments	Not established.

## 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 (EU) 2019/1021 On persistent organic pollutants (recast), 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**

Aluminium Oxide (CAS 1344-28-1)

Carbon Black (CAS 1333-86-4)

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

Not listed.

#### UFI:

Austria: 8N35-D11G-U00H-9PF1  
Belgium: 8N35-D11G-U00H-9PF1  
Bulgaria: 8N35-D11G-U00H-9PF1  
Croatia: 8N35-D11G-U00H-9PF1  
Cyprus: 8N35-D11G-U00H-9PF1  
Czech Republic: 8N35-D11G-U00H-9PF1  
Denmark: 8N35-D11G-U00H-9PF1  
Estonia: 8N35-D11G-U00H-9PF1  
EU: 8N35-D11G-U00H-9PF1  
Finland: 8N35-D11G-U00H-9PF1  
France: 8N35-D11G-U00H-9PF1  
Germany: 8N35-D11G-U00H-9PF1  
Greece: 8N35-D11G-U00H-9PF1  
Hungary: 8N35-D11G-U00H-9PF1  
Iceland: 8N35-D11G-U00H-9PF1  
Ireland: 8N35-D11G-U00H-9PF1  
Italy: 8N35-D11G-U00H-9PF1  
Latvia: 8N35-D11G-U00H-9PF1  
Lithuania: 8N35-D11G-U00H-9PF1  
Luxembourg: 8N35-D11G-U00H-9PF1  
Malta: 8N35-D11G-U00H-9PF1  
Netherlands: 8N35-D11G-U00H-9PF1  
Norway: 8N35-D11G-U00H-9PF1  
Poland: 8N35-D11G-U00H-9PF1  
Portugal: 8N35-D11G-U00H-9PF1  
Romania: 8N35-D11G-U00H-9PF1  
Slovakia: 8N35-D11G-U00H-9PF1  
Slovenia: 8N35-D11G-U00H-9PF1  
Spain: 8N35-D11G-U00H-9PF1  
Sweden: 8N35-D11G-U00H-9PF1

#### Authorizations

**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**  
- Conditions of restriction given for the associated entry number should be considered

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**

Quartz (CAS 14808-60-7)

#### 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 for work with chemical agents in accordance with Directive 98/24/EC, as amended.

**Contains a substance which is included on the TRGS 905 list of carcinogenic, germ cell mutagenic and reproductive toxic substances**

Aluminium Oxide (CAS 1344-28-1)

Faserstäube, anorganische (außer Asbest), Künstlich hergestellte anorganische einkristalline Fasern (Whisker) aus Aluminoxid  
Anorganische Faserstäube, soweit nicht erwähnt (ausgenommen Gipsfasern und Wollastonitfasern)

Carbon Black (CAS 1333-86-4)

**France regulations**

**France INRS Table of Occupational Diseases**

Quartz (CAS 14808-60-7)

Affections consécutives à l'inhalation de poussières minérales renfermant de la silice cristalline (quartz, cristobalite, tridymite), des silicates cristallins (kaolin, talc), du graphite ou de la houille  
25

**Product registration number**

<b>Austria</b>	UFI: 8N35-D11G-U00H-9PF1
<b>Belgium</b>	UFI: 8N35-D11G-U00H-9PF1
<b>Czech Republic</b>	UFI: 8N35-D11G-U00H-9PF1
<b>Denmark</b>	UFI: 8N35-D11G-U00H-9PF1
<b>European Union</b>	UFI: 8N35-D11G-U00H-9PF1
<b>Finland</b>	UFI: 8N35-D11G-U00H-9PF1
<b>France</b>	UFI: 8N35-D11G-U00H-9PF1
<b>Germany</b>	UFI: 8N35-D11G-U00H-9PF1
<b>Greece</b>	UFI: 8N35-D11G-U00H-9PF1
<b>Hungary</b>	UFI: 8N35-D11G-U00H-9PF1
<b>Italy</b>	UFI: 8N35-D11G-U00H-9PF1
<b>Netherlands</b>	UFI: 8N35-D11G-U00H-9PF1
<b>Norway</b>	UFI: 8N35-D11G-U00H-9PF1
<b>Poland</b>	UFI: 8N35-D11G-U00H-9PF1
<b>Portugal</b>	UFI: 8N35-D11G-U00H-9PF1
<b>Slovakia</b>	UFI: 8N35-D11G-U00H-9PF1
<b>Slovenia</b>	UFI: 8N35-D11G-U00H-9PF1
<b>Spain</b>	UFI: 8N35-D11G-U00H-9PF1
<b>Sweden</b>	UFI: 8N35-D11G-U00H-9PF1
<b>Switzerland</b>	UFI: 8N35-D11G-U00H-9PF1

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

**List of abbreviations**

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.  
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.  
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).  
CAS: Chemical Abstract Service.  
CEN: European Committee for Standardization.  
IATA: International Air Transport Association.  
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.  
IMDG: International Maritime Dangerous Goods.  
MAC: Maximum Allowed Concentration.  
MARPOL: International Convention for the Prevention of Pollution from Ships.  
PBT: Persistent, bioaccumulative and toxic.  
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.  
STEL: Short term exposure limit.  
TLV: Threshold Limit Value.  
TWA: Time Weighted Average.  
VLE: Exposure Limit Value.  
VME: Exposure Average Value.  
vPvB: Very persistent and very bioaccumulative.

**References**

Not available.

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

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

**Full text of any statements, which are not written out in full under sections 2 to 15**

H350 May cause cancer.  
H351 Suspected of causing cancer.

**Revision information****Training information****Disclaimer**

Physical & Chemical Properties: Multiple Properties

Follow training instructions when handling this material.

ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.