

# 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** PhillyBond # 6 Hardener

**Registration number** -

**Synonyms** None.

**SKU#** DM012H

### 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 Neatidėliotina 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

##### Health hazards

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Acute toxicity, dermal	Category 4	H312 - Harmful in contact with skin.
Skin corrosion/irritation	Category 2	H315 - Causes skin irritation.
Serious eye damage/eye irritation	Category 2	H319 - Causes serious eye irritation.
Skin sensitization	Category 1	H317 - May cause an allergic skin reaction.

##### Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
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#### 2.2. Label elements

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

**UFI:**

Austria: 5TD0-80NP-600G-DMX9  
Belgium: 5TD0-80NP-600G-DMX9  
Bulgaria: 5TD0-80NP-600G-DMX9  
Croatia: 5TD0-80NP-600G-DMX9  
Cyprus: 5TD0-80NP-600G-DMX9  
Czech Republic: 5TD0-80NP-600G-DMX9  
Denmark: 5TD0-80NP-600G-DMX9  
Estonia: 5TD0-80NP-600G-DMX9  
EU: 5TD0-80NP-600G-DMX9  
Finland: 5TD0-80NP-600G-DMX9  
France: 5TD0-80NP-600G-DMX9  
Germany: 5TD0-80NP-600G-DMX9  
Greece: 5TD0-80NP-600G-DMX9  
Hungary: 5TD0-80NP-600G-DMX9  
Iceland: 5TD0-80NP-600G-DMX9  
Ireland: 5TD0-80NP-600G-DMX9  
Italy: 5TD0-80NP-600G-DMX9  
Latvia: 5TD0-80NP-600G-DMX9  
Lithuania: 5TD0-80NP-600G-DMX9  
Luxembourg: 5TD0-80NP-600G-DMX9  
Malta: 5TD0-80NP-600G-DMX9  
Netherlands: 5TD0-80NP-600G-DMX9  
Norway: 5TD0-80NP-600G-DMX9  
Poland: 5TD0-80NP-600G-DMX9  
Portugal: 5TD0-80NP-600G-DMX9  
Romania: 5TD0-80NP-600G-DMX9  
Slovakia: 5TD0-80NP-600G-DMX9  
Slovenia: 5TD0-80NP-600G-DMX9  
Spain: 5TD0-80NP-600G-DMX9  
Sweden: 5TD0-80NP-600G-DMX9

**Contains:**

3,6-diazaoctanethylenediamin; triethylenetetramine, Formaldehyde, Oligomeric Reaction Products  
With Phenol And Triethylenetetramine, phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol, Talc

**Hazard pictograms**



**Signal word**

Warning

**Hazard statements**

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention**

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear eye protection/face protection.
P280	Wear protective gloves/protective clothing.

**Response**

P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.

**Storage**

Not available.

**Disposal**

**Supplemental label information** 99,31% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 83,27% 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
Talc	30 - 60	14807-96-6 238-877-9	-	-	
<b>Classification:</b> Carc. 2;H351					
Formaldehyde, Oligomeric Reaction Products With Phenol And Triethylenetetramine	10 - 30	Proprietary 500-083-8	-	-	
<b>Classification:</b> -					
3,6-diazaoctanethylenediamin; triethylenetetramine	5 - 10	112-24-3 203-950-6	01-2119487919-13-0000	612-059-00-5	
<b>Classification:</b> Acute Tox. 4;H302;(ATE: 1716 mg/kg bw), Acute Tox. 4;H312;(ATE: 1100 mg/kg bw), Skin Corr. 1B;H314, Eye Dam. 1;H318, Skin Sens. 1;H317, Aquatic Chronic 3;H412					
phenol; carboic acid; monohydroxybenzene; phenylalcohol	5 - 10	108-95-2 203-632-7	-	604-001-00-2	#
<b>Classification:</b> Acute Tox. 3;H301;(ATE: 100 mg/kg bw), Acute Tox. 3;H311;(ATE: 300 mg/kg bw), Acute Tox. 3;H331;(ATE: 0,5 mg/l), Skin Corr. 1B;H314, Eye Dam. 1;H318, Muta. 2;H341, STOT RE 2;H373, Aquatic Chronic 2;H411					
<b>Specific Concentration Limits:</b> Skin Corr. 1B;H314: C ≥ 3 %, Skin Irrit. 2;H315: 1 % ≤ C < 3 %, Eye Dam. 1;H314: C ≥ 3 %, Eye Irrit. 2;H319: 1 % ≤ C < 3 %					
CARBON BLACK	0,1 - 1	1333-86-4 215-609-9	-	-	
<b>Classification:</b> Carc. 2;H351					
Quartz	< 1	14808-60-7 238-878-4	-	-	
<b>Classification:</b> Carc. 1A;H350					
Other components below reportable levels	1 - 5				

#### 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.

#### Composition comments

The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

#### General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

#### 4.1. Description of first aid measures

##### Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

##### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if you feel unwell. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

##### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

##### Ingestion

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

## 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 (CO2).
<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>	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.
<b>For emergency responders</b>	Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in 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.
<b>6.3. Methods and material for containment and cleaning up</b>	Prevent product from entering drains.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.  Small Spills: 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.
<b>6.4. Reference to other sections</b>	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Do not taste or swallow. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
<b>7.3. Specific end use(s)</b>	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
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	MAK	8 mg/m3	
	STEL	2 ppm 6 mg/m3 4 ppm	
Quartz (CAS 14808-60-7)	MAK	0,15 mg/m3	Respirable dust.
Silicon Dioxide (CAS 112945-52-5)	MAK	4 mg/m3	Inhalable fraction.
Talc (CAS 14807-96-6)	MAK	2 mg/m3	Respirable fraction.
	STEL	20 mg/m3 10 mg/m3	Inhalable fraction. Respirable fraction.

### 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
CARBON BLACK (CAS 1333-86-4)	TWA	3 mg/m3	
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3	
	TWA	4 ppm 8 mg/m3 2 ppm	
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	

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

Components	Type	Value	Form
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3	
	TWA	4 ppm 8 mg/m3 2 ppm	
Quartz (CAS 14808-60-7)	TWA	0,07 mg/m3	Respirable fraction.
Silicon Dioxide (CAS 112945-52-5)	TWA	10 mg/m3	Inhalable fraction.
Talc (CAS 14807-96-6)	TWA	0,07 mg/m3 1 fibers/cm3 6 mg/m3 3 mg/m3	Respirable fraction. Inhalable fraction. 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
CARBON BLACK (CAS 1333-86-4)	MAC	3,5 mg/m3	
	STEL	7 mg/m3	
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	MAC	8 mg/m3	

**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
		2 ppm	
	STEL	6 mg/m3	
		4 ppm	
Quartz (CAS 14808-60-7)	MAC	0,1 mg/m3	
Silicon Dioxide (CAS 112945-52-5)	MAC	6 mg/m3	Total dust.
		0,1 mg/m3	Respirable dust.
Talc (CAS 14807-96-6)	MAC	1 mg/m3	Respirable dust.

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

Components	Type	Value
CARBON BLACK (CAS 1333-86-4)	TWA	3,5 mg/m3
Silicon Dioxide (CAS 112945-52-5)	TWA	2 mg/m3
Talc (CAS 14807-96-6)	TWA	706 part/cm3

**Cyprus. OELs. Occupational Exposure Limit Values of Chemicals at Work (Safety and Health at Work (Chem. Agents) Reg., Ann. 1, R.A.A. 268/2001, as amended)**

Components	Type	Value
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
	TWA	4 ppm 8 mg/m3 2 ppm

**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
CARBON BLACK (CAS 1333-86-4)	TWA	10 mg/m3	Dust.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Ceiling	15 mg/m3	
	TWA	7,5 mg/m3	
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Silicon Dioxide (CAS 112945-52-5)	TWA	4 mg/m3	Dust.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable dust.
		10 mg/m3	Total dust.

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

Components	Type	Value	Form
CARBON BLACK (CAS 1333-86-4)	TLV	3,5 mg/m3	
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	TLV	4 mg/m3	
		1 ppm	
Quartz (CAS 14808-60-7)	TLV	0,3 mg/m3	Total
		0,1 mg/m3	Respirable.
Talc (CAS 14807-96-6)	TLV	0,003 fibers/cm3	Fiber.

**Estonia**

Components	Type	Value	Form
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Silicon Dioxide (CAS 112945-52-5)	TWA	2 mg/m3	Fine dust, respiratory fraction

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

Components	Type	Value	
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	STEL	12 mg/m3	
	TWA	6 mg/m3 1 ppm	
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3	
	TWA	4 ppm 8 mg/m3 2 ppm	

**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/m3	
	TWA	3,5 mg/m3	
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3	
	TWA	4 ppm 8 mg/m3 2 ppm	
Quartz (CAS 14808-60-7)	TWA	0,05 mg/m3	Respirable.
Silicon Dioxide (CAS 112945-52-5)	TWA	5 mg/m3	
Talc (CAS 14807-96-6)	TWA	2 mg/m3 1 mg/m3	Inhalable dust. Respirable.

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

Components	Type	Value	
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	VLE	15,6 mg/m3	
	VME	4 ppm 7,8 mg/m3 2 ppm	

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

Components	Type	Value	Form
CARBON BLACK (CAS 1333-86-4)	VME	3,5 mg/m3	
<b>Regulatory status:</b> Indicative limit (VL)			
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	VLE	15,6 mg/m3	
<b>Regulatory status:</b> Regulatory binding (VRC)			
		4 ppm	
<b>Regulatory status:</b> Regulatory binding (VRC)			



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

Components	Type	Value	Form
	VME	7,8 mg/m3	
<b>Regulatory status:</b>	Regulatory binding (VRC)		
		2 ppm	
<b>Regulatory status:</b>	Regulatory binding (VRC)		
Quartz (CAS 14808-60-7)	VME	0,1 mg/m3	Respirable fraction.
Talc (CAS 14807-96-6)	VME	4 mg/m3	Total dust.
<b>Regulatory status:</b>	Regulatory binding (VRC)		
		0,9 mg/m3	Respirable dust.
<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
CARBON BLACK (CAS 1333-86-4)	TWA	4 mg/m3	Inhalable dust.
Silicon Dioxide (CAS 112945-52-5)	TWA	4 mg/m3	Inhalable fraction.
Talc (CAS 14807-96-6)	TWA	4 mg/m3	Inhalable dust.

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

Components	Type	Value	Form
CARBON BLACK (CAS 1333-86-4)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	AGW	8 mg/m3	Vapor and aerosol.
		2 ppm	Vapor and aerosol.
Silicon Dioxide (CAS 112945-52-5)	AGW	4 mg/m3	Inhalable fraction.
Talc (CAS 14807-96-6)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.

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

Components	Type	Value	Form
CARBON BLACK (CAS 1333-86-4)	STEL	7 mg/m3	
	TWA	3,5 mg/m3	
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3	
		4 ppm	
	TWA	8 mg/m3	
		2 ppm	
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.
		10 mg/m3	Inhalable

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

Components	Type	Value	Form
CARBON BLACK (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable dust.
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3	
	TWA	8 mg/m3	
Quartz (CAS 14808-60-7)	TWA	0,15 mg/m3	Respirable.

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

Components	Type	Value	Form
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable dust.

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

Components	Type	Value	Form
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	TWA	6 mg/m3	
		1 ppm	
CARBON BLACK (CAS 1333-86-4)	TWA	3,5 mg/m3	
Quartz (CAS 14808-60-7)	TWA	0,3 mg/m3	Total dust.
		0,1 mg/m3	Respirable dust.
Silicon Dioxide (CAS 112945-52-5)	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
		0,5 mg/m3	Dust.
Talc (CAS 14807-96-6)	TWA	0,3 fibers/cm3	Fiber.
		5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.

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

Components	Type	Value	Form
CARBON BLACK (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3	
		4 ppm	
	TWA	8 mg/m3	
		2 ppm	
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Silicon Dioxide (CAS 112945-52-5)	TWA	6 mg/m3	Total inhalable dust.
		2,4 mg/m3	Respirable dust.
Talc (CAS 14807-96-6)	TWA	10 mg/m3	Total inhalable dust.
		0,8 mg/m3	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/m3	Inhalable fraction.
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3	
		4 ppm	
	TWA	8 mg/m3	
		2 ppm	
Quartz (CAS 14808-60-7)	TWA	0,025 mg/m3	Respirable fraction.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	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
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3

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

Components	Type	Value
Silicon Dioxide (CAS 112945-52-5)	TWA	4 ppm
		8 mg/m3
		2 ppm
	TWA	1 mg/m3

**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
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	STEL	12 mg/m3	
	TWA	2 ppm	
		6 mg/m3	
CARBON BLACK (CAS 1333-86-4)	TWA	1 ppm	
		5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3	
	TWA	4 ppm	
		8 mg/m3	
Quartz (CAS 14808-60-7)	TWA	2 ppm	
		0,1 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Inhalable fraction.
Talc (CAS 14807-96-6)	TWA	1 mg/m3	Respirable fraction.

**Luxembourg. OELs. Binding Occupational Exposure Limit Values (Annex I), G.D.R. of 14 November 2016, OJ Memorial A, n ° 235/2016, as amended**

Components	Type	Value
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
	TWA	4 ppm
		8 mg/m3
		2 ppm

**Malta. OELs. Protection of Health and Safety of Workers from Risks related to Chemical Agents at Work (L.N 227/2003 Schedules I and V), as amended**

Components	Type	Value
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3
	TWA	4 ppm
		8 mg/m3
		2 ppm

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

Components	Type	Value	Form
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	TWA	8 mg/m3	
Quartz (CAS 14808-60-7)	TWA	0,075 mg/m3	Respirable dust.

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

Components	Type	Value	Form
Talc (CAS 14807-96-6)	TWA	0,25 mg/m3	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
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	TLV	6 mg/m3	
		1 ppm	
CARBON BLACK (CAS 1333-86-4)	TLV	3,5 mg/m3	
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	12 mg/m3	
		3 ppm	
	TLV	4 mg/m3	
		1 ppm	
Quartz (CAS 14808-60-7)	TLV	0,3 mg/m3	Total dust.
		0,1 mg/m3	Respirable dust.
Silicon Dioxide (CAS 112945-52-5)	TLV	1,5 mg/m3	Respirable dust.
Talc (CAS 14807-96-6)	TLV	6 mg/m3	Total dust.
		2 mg/m3	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
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	STEL	3 mg/m3	
	TWA	1 mg/m3	
CARBON BLACK (CAS 1333-86-4)	TWA	4 mg/m3	Inhalable fraction.
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3	
	TWA	7,8 mg/m3	
Quartz (CAS 14808-60-7)	TWA	2 mg/m3	Inhalable fraction.
		0,3 mg/m3	Respirable fraction.
Talc (CAS 14807-96-6)	TWA	4 mg/m3	Inhalable fraction.
		1 mg/m3	Respirable fraction.

**Portugal. Decree-Law No. 24/2012, Occupational Exposure Limit Values, Annex II, as amended**

Components	Type	Value	Form
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3	
		4 ppm	
	TWA	8 mg/m3	
		2 ppm	

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

Components	Type	Value	Form
CARBON BLACK (CAS 1333-86-4)	TWA	3 mg/m3	Fume.

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

Components	Type	Value	Form
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	TWA	5 ppm	
Quartz (CAS 14808-60-7)	TWA	0,025 mg/m3	Respirable fraction.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	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
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	STEL	20 mg/m3	
		3,3 ppm	
	TWA	10 mg/m3	
		1,7 ppm	
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3	
		4 ppm	
	TWA	8 mg/m3	
		2 ppm	
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable fraction.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.

**Romania. OELs/CMRs. Protection of workers from exposure to carcinogen and mutagen agents. Hotarâre Nr. 1093 din 16 august 2006, Annex 3**

Components	Type	Value	Form
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.

**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/m3	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
CARBON BLACK (CAS 1333-86-4)	TWA	2 mg/m3	
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3	
		4 ppm	
	TWA	8 mg/m3	
		2 ppm	
Silicon Dioxide (CAS 112945-52-5)	TWA	0,3 mg/m3	
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
		2 mg/m3	Respirable fraction.
		10 mg/m3	Total

**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
CARBON BLACK (CAS 1333-86-4)	TWA	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.

**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
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	TWA	8 mg/m3	
		2 ppm	
Quartz (CAS 14808-60-7)	TWA	0,15 mg/m3	Respirable fraction.
Silicon Dioxide (CAS 112945-52-5)	TWA	4 mg/m3	Inhalable fraction.
Talc (CAS 14807-96-6)	TWA	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.

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

Components	Type	Value	Form
CARBON BLACK (CAS 1333-86-4)	TWA	3,5 mg/m3	
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3	
		4 ppm	
	TWA	8 mg/m3	
		2 ppm	
Quartz (CAS 14808-60-7)	TWA	0,05 mg/m3	Respirable fraction.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.

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

Components	Type	Value	Form
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	STEL	12 mg/m3	
		2 ppm	
	TWA	6 mg/m3	
		1 ppm	
CARBON BLACK (CAS 1333-86-4)	TWA	5 mg/m3	Inhalable dusts and mists.
		1 mg/m3	Inhalable dust.
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Ceiling	16 mg/m3	
		4 ppm	
	TWA	4 mg/m3	
		1 ppm	
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Total dust.
		1 mg/m3	Respirable dust.

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

Components	Type	Value	Form
CARBON BLACK (CAS 1333-86-4)	TWA	3 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	19 mg/m3	Vapor and aerosol.

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

Components	Type	Value	Form
Quartz (CAS 14808-60-7) Talc (CAS 14807-96-6)	TWA	5 ppm	Vapor and aerosol.
		19 mg/m3	Vapor and aerosol.
	TWA	5 ppm	Vapor and aerosol.
		0,15 mg/m3	Respirable dust.
		3 mg/m3	Respirable fraction.

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

Components	Type	Value	Form
CARBON BLACK (CAS 1333-86-4)	STEL	7 mg/m3	
	TWA	3,5 mg/m3	
	STEL	16 mg/m3	
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	TWA	4 ppm	
		7,8 mg/m3	
		2 ppm	
	TWA	0,1 mg/m3	Respirable.
	TWA	6 mg/m3	Inhalable dust.
Talc (CAS 14807-96-6)	TWA	2,4 mg/m3	Respirable dust.
		1 mg/m3	Respirable dust.

**EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU**

Components	Type	Value	
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m3	
	TWA	4 ppm	
		8 mg/m3	
		2 ppm	

**Biological limit values**
**Croatia. BELs (BGV). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and BELs, Annex IV (NN 91/2018), as amended**

Components	Value	Determinant	Specimen	Sampling Time
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	120 mg/g	phenol	Creatinine in urine	*
	0,14 mol/mol	phenol	Creatinine in urine	*

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

**Czech Republic. BELs. Government Decree 432/2003 Sb., as amended**

Components	Value	Determinant	Specimen	Sampling Time
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	360 µmol/mmol	phenol	Creatinine in urine	*
	300 mg/g	phenol	Creatinine in urine	*

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

**Finland. HTP-arvot, App 2., Biological Limit Values, Social Affairs and Ministry of Health**

Components	Value	Determinant	Specimen	Sampling Time
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phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	1,3 mmol/l	Total phenol	Urine	*
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\* - For sampling details, please see the source document.

**France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS), ND 2065)**

Components	Value	Determinant	Specimen	Sampling Time
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phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	250 mg/g	Phénol total	Creatinine in urine	*
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\* - For sampling details, please see the source document.

**Germany. TRGS 903, BAT List (Biological Limit Values)**

Components	Value	Determinant	Specimen	Sampling Time
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phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	120 mg/g	Phenol (nach Hydrolyse)	Creatinine in urine	*
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\* - For sampling details, please see the source document.

**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
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phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	144 µmol/mmol	phenol	Creatinine in urine	*
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	120 mg/g	phenol	Creatinine in urine	*
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\* - For sampling details, please see the source document.

**Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2**

Components	Value	Determinant	Specimen	Sampling Time
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phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	133,7 mg/g	phenol	Creatinine in urine	*
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	200 mg/l	phenol	Urine	*
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\* - For sampling details, please see the source document.

**Spain. BELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 3-Valores Límite Biológicos (VLB)**

Components	Value	Determinant	Specimen	Sampling Time
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phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	120 mg/g	Fenol, con hidrólisis	Creatinine in urine	*
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\* - For sampling details, please see the source document.

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

Components	Value	Determinant	Specimen	Sampling Time
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phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	250 mg/g	Phenol	Creatinine in urine	*
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\* - 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.

**Exposure guidelines** Occupational Exposure Limits are not relevant to the current physical form of the product.



**Austria MAK: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Belgium OELs: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Bulgaria OELs: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Czech Republic PELs: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Denmark GV: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Estonia OELs: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**EU Exposure Limit Values: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Finland Exposure Limit Values: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**France INRS: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**France Mandatory OELs (VLEP): Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Germany DFG MAK (advisory): Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Germany TRGS 900 Limit Values: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Greece OEL: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Hungary OELs: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Ireland Exposure Limit Values: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Italy OELs: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Danger of cutaneous absorption

**Latvia OELs: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Lithuania OELs: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Luxembourg OELs: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Malta OELs: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Netherlands OELs (binding): Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Norway Exposure Limit Values: Skin designation**

phenol; carbolic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Can be absorbed through the skin.

**Portugal OELs: Skin designation**

phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
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**Portugal VLEs Norm on Occupational Exposure: Skin designation**

phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
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**Romania OELs: Skin designation**

phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
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**Slovakia OELs: Skin designation**

phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
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**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
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**Spain OELs: Skin designation**

phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
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**Sweden Threshold Limit Values: Skin designation**

phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
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**Switzerland SUVA Limit Values at the Workplace: Skin designation**

phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
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**UK EH40 WEL: Skin designation**

phenol; carbolic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	Can be absorbed through the skin.
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**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. Provide eyewash station and safety shower.

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

Use personal protective equipment as required. 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). Face shield is recommended.

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

Wear appropriate chemical resistant gloves.

**- Other**

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures**

Keep away from food and drink. 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. Contaminated work clothing should not be allowed out of the workplace.

**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>	Not available.
<b>Form</b>	Paste.
<b>Color</b>	Black.
<b>Odor</b>	Ammoniacal.
<b>Melting point/freezing point</b>	Not available.
<b>Boiling point or initial boiling point and boiling range</b>	>350 °F (>176,67 °C)

Flammability	Not available.
Flash point	277,0 °F (136,1 °C)
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	Not available.
Kinematic viscosity	Not available.
Solubility	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapor pressure	<1 mm Hg
Density and/or relative density	
Density	14,33 lb/gal
Vapor density	Not available.
Particle characteristics	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	
Specific gravity	1,72
VOC	0 g/l

## SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Contact with incompatible materials.
10.5. Incompatible materials	Acids. Strong oxidizing agents. Aluminum. Peroxides. Phenols.
10.6. Hazardous decomposition products	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	
Inhalation	No adverse effects due to inhalation are expected.
Skin contact	Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed.
Symptoms	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

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

Acute toxicity	Harmful in contact with skin. Harmful if swallowed.
----------------	---

Components	Species	Test Results
3,6-diazaoctanethylenediamin; triethylenetetramine (CAS 112-24-3)		
<b>Acute</b>		
<b>Dermal</b>		
Liquid		
LD50	Rat	1465 mg/kg
<b>Oral</b>		
Liquid		
LD50	Rat	1716 mg/kg

Components	Species	Test Results
CARBON BLACK (CAS 1333-86-4)		
<u>Acute</u>		
Oral		
LD50	Rat	> 8000 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes serious eye irritation.	
Respiratory sensitization	Due to partial or complete lack of data the classification is not possible.	
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.	
Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)		
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)		Mutagenic, Category 2.
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.	
Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)		
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)		
IARC Monographs. Overall Evaluation of Carcinogenicity		
CARBON BLACK (CAS 1333-86-4)		2B Possibly carcinogenic to humans.
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)		3 Not classifiable as to carcinogenicity to humans.
Quartz (CAS 14808-60-7)		1 Carcinogenic to humans.
Talc (CAS 14807-96-6)		2B Possibly carcinogenic to humans.
		3 Not classifiable as to carcinogenicity to humans.
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.	
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.	
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.	
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.	
Mixture versus substance information	No information available.	
11.2. Information on other hazards		
Endocrine disrupting properties	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.	
Other information	Not available.	
SECTION 12: Ecological information		
12.1. Toxicity	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.	
12.2. Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.	
12.3. Bioaccumulative potential		
Partition coefficient n-octanol/water (log Kow)		
phenol; carboic acid; monohydroxybenzene; phenylalcohol	1,46	
Bioconcentration factor (BCF)	Not available.	
12.4. Mobility in soil	No data available.	
12.5. Results of PBT and vPvB assessment	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.	
12.6. Endocrine disrupting properties	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.	
12.7. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

## 12.8. Additional information

### Estonia Dangerous substances in soil Data

phenol; carboic acid; monohydroxybenzene;  
phenylalcohol (CAS 108-95-2)

Hydroxybenzene (As the sum of Phenols) 0,1 MG/KG

Hydroxybenzene (As the sum of Phenols) 1 MG/KG

Hydroxybenzene (As the sum of Phenols) 10 MG/KG

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<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

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

### RID

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

### ADN

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

### IATA

<b>14.1. UN number</b>	Not regulated as dangerous goods.
<b>14.2. UN proper shipping name</b>	Not regulated as dangerous goods.
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	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 applicable. 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**

CARBON BLACK (CAS 1333-86-4)

Talc (CAS 14807-96-6)

phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)

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

Not listed.

UFI:

Austria: 5TD0-80NP-600G-DMX9  
Belgium: 5TD0-80NP-600G-DMX9  
Bulgaria: 5TD0-80NP-600G-DMX9  
Croatia: 5TD0-80NP-600G-DMX9  
Cyprus: 5TD0-80NP-600G-DMX9  
Czech Republic: 5TD0-80NP-600G-DMX9  
Denmark: 5TD0-80NP-600G-DMX9  
Estonia: 5TD0-80NP-600G-DMX9  
EU: 5TD0-80NP-600G-DMX9  
Finland: 5TD0-80NP-600G-DMX9  
France: 5TD0-80NP-600G-DMX9  
Germany: 5TD0-80NP-600G-DMX9  
Greece: 5TD0-80NP-600G-DMX9  
Hungary: 5TD0-80NP-600G-DMX9  
Iceland: 5TD0-80NP-600G-DMX9  
Ireland: 5TD0-80NP-600G-DMX9  
Italy: 5TD0-80NP-600G-DMX9  
Latvia: 5TD0-80NP-600G-DMX9  
Lithuania: 5TD0-80NP-600G-DMX9  
Luxembourg: 5TD0-80NP-600G-DMX9  
Malta: 5TD0-80NP-600G-DMX9  
Netherlands: 5TD0-80NP-600G-DMX9  
Norway: 5TD0-80NP-600G-DMX9  
Poland: 5TD0-80NP-600G-DMX9  
Portugal: 5TD0-80NP-600G-DMX9  
Romania: 5TD0-80NP-600G-DMX9  
Slovakia: 5TD0-80NP-600G-DMX9  
Slovenia: 5TD0-80NP-600G-DMX9  
Spain: 5TD0-80NP-600G-DMX9  
Sweden: 5TD0-80NP-600G-DMX9

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

phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)  
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

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended. 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

CARBON BLACK (CAS 1333-86-4)

Anorganische Faserstäube, soweit nicht erwähnt (ausgenommen Gipsfasern und Wollastonitfasern)

Talc (CAS 14807-96-6)

Anorganische Faserstäube, soweit nicht erwähnt (ausgenommen Gipsfasern und Wollastonitfasern)

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

Talc (CAS 14807-96-6)

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

Austria UFI: 5TD0-80NP-600G-DMX9  
Belgium UFI: 5TD0-80NP-600G-DMX9  
Czech Republic UFI: 5TD0-80NP-600G-DMX9

Denmark	UFI: 5TD0-80NP-600G-DMX9
European Union	UFI: 5TD0-80NP-600G-DMX9
Finland	UFI: 5TD0-80NP-600G-DMX9
France	UFI: 5TD0-80NP-600G-DMX9
Germany	UFI: 5TD0-80NP-600G-DMX9
Greece	UFI: 5TD0-80NP-600G-DMX9
Hungary	UFI: 5TD0-80NP-600G-DMX9
Italy	UFI: 5TD0-80NP-600G-DMX9
Netherlands	UFI: 5TD0-80NP-600G-DMX9
Norway	UFI: 5TD0-80NP-600G-DMX9
Poland	UFI: 5TD0-80NP-600G-DMX9
Portugal	UFI: 5TD0-80NP-600G-DMX9
Slovakia	UFI: 5TD0-80NP-600G-DMX9
Slovenia	UFI: 5TD0-80NP-600G-DMX9
Spain	UFI: 5TD0-80NP-600G-DMX9
Sweden	UFI: 5TD0-80NP-600G-DMX9
Switzerland	UFI: 5TD0-80NP-600G-DMX9

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

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

Not available.  
 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

H301 Toxic if swallowed.  
 H302 Harmful if swallowed.  
 H311 Toxic in contact with skin.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H331 Toxic if inhaled.  
 H341 Suspected of causing genetic defects.  
 H350 May cause cancer.  
 H351 Suspected of causing cancer.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

### Revision information

Physical & Chemical Properties: Multiple Properties

### Training information

Follow training instructions when handling this material.



## Disclaimer

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.