

SAFETY DATA SHEET

Version #: 11

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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

Greece Poison Information Centre	(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Hungary National Emergency Phone Number	+36-80-201-199 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Iceland Poison Center	(+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Latvia Emergency medical aid	113
Latvia Poison and Drug Information Center	+371 67042473 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Lithuania Neatidēliotina informacija apsinuodijus	+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Malta Accident and Emergency Department	2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)
Netherlands National Poisons Information Center (NVIC)	NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in cases of acute intoxications)
Norway Norwegian Poison Information Center	22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Portugal Poison Center	800 250 250 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Romania Biroul RSI si Informare Toxicologica	021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)
Slovakia National Toxicological Information Center	+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Spain Toxicology Information Service	+ 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Sweden National Poison Information Center	112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)
Switzerland Tox Info Suisse	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; carboic 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	-	-	
Classification: Carc. 2;H351					
Formaldehyde, Oligomeric Reaction Products With Phenol And Triethylenetetramine	10 - 30	Proprietary 500-083-8	-	-	
Classification: -					
3,6-diazaoctanethylenediamin; triethylenetetramine	5 - 10	112-24-3 203-950-6	01-2119487919-13-0000	612-059-00-5	
Classification: 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	#
Classification: 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					
Specific Concentration Limits: 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	-	-	
Classification: Carc. 2;H351					
Quartz	< 1	14808-60-7 238-878-4	-	-	
Classification: 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.

4.2. Most important symptoms and effects, both acute and delayed	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.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards	No unusual fire or explosion hazards noted.
5.1. Extinguishing media	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
5.2. Special hazards arising from the substance or mixture	During fire, gases hazardous to health may be formed.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.
For emergency responders	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.
6.2. Environmental precautions	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. 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.
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	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.
7.2. Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	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	
		2 ppm	
	STEL	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	Inhalable fraction.
		10 mg/m3	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	
		4 ppm	
	TWA	8 mg/m3	
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	
		4 ppm	
	TWA	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.
		0,07 mg/m3	Respirable fraction.
	Talc (CAS 14807-96-6)	TWA	1 fibers/cm3 6 mg/m3 3 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
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	
		4 ppm	
	TWA	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	Inhalable dust.
		1 mg/m3	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	
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	VLE	15,6 mg/m3	
		4 ppm	
	Regulatory status: Regulatory binding (VRC)		
	Regulatory status: 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	
Regulatory status:	Regulatory binding (VRC)		
		2 ppm	
Regulatory status:	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.
Regulatory status:	Regulatory binding (VRC)		
		0,9 mg/m3	Respirable dust.
Regulatory status:	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
		4 ppm
	TWA	8 mg/m ³
		2 ppm
Silicon Dioxide (CAS 112945-52-5)	TWA	1 mg/m ³

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/m ³	
		2 ppm	
	TWA	6 mg/m ³	
		1 ppm	
CARBON BLACK (CAS 1333-86-4)	TWA	5 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m ³	
		4 ppm	
	TWA	8 mg/m ³	
		2 ppm	
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m ³	Respirable fraction.
Talc (CAS 14807-96-6)	TWA	2 mg/m ³	Inhalable fraction.
		1 mg/m ³	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/m ³
		4 ppm
	TWA	8 mg/m ³
		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/m ³
		4 ppm
	TWA	8 mg/m ³
		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/m ³	
Quartz (CAS 14808-60-7)	TWA	0,075 mg/m ³	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/m ³	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/m ³	
		1 ppm	
CARBON BLACK (CAS 1333-86-4)	TLV	3,5 mg/m ³	
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	12 mg/m ³	
		3 ppm	
	TLV	4 mg/m ³	
		1 ppm	
Quartz (CAS 14808-60-7)	TLV	0,3 mg/m ³	Total dust.
		0,1 mg/m ³	Respirable dust.
Silicon Dioxide (CAS 112945-52-5)	TLV	1,5 mg/m ³	Respirable dust.
Talc (CAS 14807-96-6)	TLV	6 mg/m ³	Total dust.
		2 mg/m ³	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/m ³	
	TWA	1 mg/m ³	
CARBON BLACK (CAS 1333-86-4)	TWA	4 mg/m ³	Inhalable fraction.
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m ³	
	TWA	7,8 mg/m ³	
Quartz (CAS 14808-60-7)	TWA	2 mg/m ³	Inhalable fraction.
		0,3 mg/m ³	Respirable fraction.
Talc (CAS 14807-96-6)	TWA	4 mg/m ³	Inhalable fraction.
		1 mg/m ³	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/m ³	
		4 ppm	
	TWA	8 mg/m ³	
		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/m ³	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
		5 ppm	Vapor and aerosol.
	TWA	19 mg/m ³	Vapor and aerosol.
		5 ppm	Vapor and aerosol.
Quartz (CAS 14808-60-7)	TWA	0,15 mg/m ³	Respirable dust.
Talc (CAS 14807-96-6)	TWA	3 mg/m ³	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/m ³	
	TWA	3,5 mg/m ³	
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m ³	
		4 ppm	
	TWA	7,8 mg/m ³	
		2 ppm	
Quartz (CAS 14808-60-7)	TWA	0,1 mg/m ³	Respirable.
Silicon Dioxide (CAS 112945-52-5)	TWA	6 mg/m ³	Inhalable dust.
		2,4 mg/m ³	Respirable dust.
Talc (CAS 14807-96-6)	TWA	1 mg/m ³	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	Form
phenol; carboic acid; monohydroxybenzene; phenylalcohol (CAS 108-95-2)	STEL	16 mg/m ³	
		4 ppm	
	TWA	8 mg/m ³	
		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	Phèmol 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; Can be absorbed through the skin.
phenylalcohol (CAS 108-95-2)

Portugal VLEs Norm on Occupational Exposure: Skin designation

phenol; carbolic acid; monohydroxybenzene; Can be absorbed through the skin.
phenylalcohol (CAS 108-95-2)

Romania OELs: Skin designation

phenol; carbolic acid; monohydroxybenzene; Can be absorbed through the skin.
phenylalcohol (CAS 108-95-2)

Slovakia OELs: Skin designation

phenol; carbolic acid; monohydroxybenzene; Can be absorbed through the skin.
phenylalcohol (CAS 108-95-2)

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; Can be absorbed through the skin.
phenylalcohol (CAS 108-95-2)

Spain OELs: Skin designation

phenol; carbolic acid; monohydroxybenzene; Can be absorbed through the skin.
phenylalcohol (CAS 108-95-2)

Sweden Threshold Limit Values: Skin designation

phenol; carbolic acid; monohydroxybenzene; Can be absorbed through the skin.
phenylalcohol (CAS 108-95-2)

Switzerland SUVA Limit Values at the Workplace: Skin designation

phenol; carbolic acid; monohydroxybenzene; Can be absorbed through the skin.
phenylalcohol (CAS 108-95-2)

UK EH40 WEL: Skin designation

phenol; carbolic acid; monohydroxybenzene; Can be absorbed through the skin.
phenylalcohol (CAS 108-95-2)

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**

Physical state	Not available.
Form	Paste.
Color	Black.
Odor	Ammoniacal.
Melting point/freezing point	Not available.
Boiling point or initial boiling point and boiling range	>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)		
Acute		
Dermal		
<i>Liquid</i>		
LD50	Rat	1465 mg/kg
Oral		
<i>Liquid</i>		
LD50	Rat	1716 mg/kg

Components	Species	Test Results
CARBON BLACK (CAS 1333-86-4)		
Acute		
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

Residual waste	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).
Contaminated packaging	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.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	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.
Special precautions	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 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

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

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.