### SAFETY DATA SHEET

Version # 12

Issue date: 07-03-2019 Revision date: 08-02-2023 Supersedes date: 07-19-2023

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

1.1. Product identifier

Trade name or designation

of the mixture

**Putty Hardener** 

Registration number

None. Synonyms 0200C SKU#

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

**ITW Performance Polymers Company Name** 

Bay 150 Address

Shannon Industrial Estate

Co. Clare Ireland V14 DF82

**Contact Person Customer Service Telephone Number** 353(61)771500

353(61)471285

customerservice.shannon@itwpp.com **Fmail** 

**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

**Control 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** 

+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.)

Material name: Putty Hardener - ITWPP - Danvers

#### 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

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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 Neatidėliotina 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**

Skin corrosion/irritation Category 2 H315 - Causes skin irritation. Serious eye damage/eye irritation Category 1 H318 - Causes serious eye

damage.

Category 1

H317 - May cause an allergic skin

reaction.

**Environmental hazards** 

long-term aquatic hazard

Skin sensitization

Hazardous to the aquatic environment, Category 3 H412 - Harmful to aquatic life with

long lasting effects.

#### 2.2. Label elements

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

Contains: 3,6-diazaoctanethylenediamin; triethylenetetramine, Aliphatic Amines

Hazard pictograms



Signal word Danger

Material name: Putty Hardener - ITWPP - Danvers

**Hazard statements** 

Causes skin irritation. H315

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

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.

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.

Response

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.

P310 Immediately call a POISON CENTER/doctor.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage Not available.

Disposal

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

Supplemental label information Nor

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
Aliphatic Amines	40 - < 50	N/A	-	-	
Classification	1: -	-			
3,6-diazaoctanethylenediamin; triethylenetetramine	20 - < 30	112-24-3 203-950-6	-	612-059-00-5	
Classification	mg/kg bw),		mg/kg bw), Acute Tox. 4;H3 <sup>,</sup> , Eye Dam. 1;H318, Skin Ser		
benzyl alcohol	20 - < 30	100-51-6 202-859-9	-	603-057-00-5	
Classification			ng/kg bw), Acute Tox. 4;H312 (ATE: 11 mg/l), Aquatic Chro		
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]	< 1	13463-67-7 236-675-5	01-2119489379-17-0000	022-006-002	
	n: Carc. 2;H3				

Other components below reportable

0,1 - 1

levels

#### 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. 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. 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 immediately.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

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

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. 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 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 spray. Alcohol resistant foam. 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

Use water spray to cool unopened containers.

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. Following product recovery, flush area with water.

Small Spills: 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 get this material in contact with eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

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

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

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AUSTRIA MAK I IST.	. OFI Orginance	! ((3WV). B(3B). II. N	o. 184/2001, as amended

Components	Туре	Value	Form
Silicon Dioxide (CAS 112945-52-5)	MAK	4 mg/m3	Inhalable fraction.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	MAK	5 mg/m3	Respirable dust.
	STEL	10 mg/m3	Respirable dust.

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

Components	Туре	Value	
titanium dioxide [in powder	TWA	10 mg/m3	
form containing 1 % or			
more of particles with			
aerodynamic diameter ≤ 10			
μm] (CAS 13463-67-7)			

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

Components	Туре	Value	Form
benzyl alcohol (CAS 100-51-6)	TWA	5 mg/m3	
Silicon Dioxide (CAS 112945-52-5)	TWA	10 mg/m3	Inhalable fraction.
		0,07 mg/m3	Respirable fraction.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)	TWA	10 mg/m3	Respirable dust.

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

Components	Туре	Value	Form
Silicon Dioxide (CAS MAC 6 mg/m3 12945-52-5)	Total dust.		
		0,1 mg/m3	Respirable dust.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)	MAC	4 mg/m3	Respirable dust.
		10 mg/m3	Total dust.

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

Silicon Dioxide (CAS 112945-52-5)	TWA	2 mg/m3	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	10 mg/m3	

# 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	Туре	Value	Form
benzyl alcohol (CAS 100-51-6)	Ceiling	80 mg/m3	
	TWA	40 mg/m3	
Silicon Dioxide (CAS 112945-52-5)	TWA	4 mg/m3	Dust.

#### Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2 Components **Type** Value titanium dioxide [in powder **TLV** 6 mg/m3 form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7) **Estonia** Components Value **Form Type** Silicon Dioxide (CAS **TWA** Fine dust, respiratory 2 mg/m3 112945-52-5) fraction Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended Components Value Type 3,6-diazaoctanethylenedia STEL 12 mg/m3 min; triethylenetetramine (CAS 112-24-3) TWA 6 mg/m3 1 ppm 5 mg/m3 titanium dioxide [in powder **TWA** form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7) Finland. HTP-arvot, App 3., Binding Limit Values, Social Affairs and Ministry of Health **Form** Components Value Type benzyl alcohol (CAS **TWA** 45 mg/m3 100-51-6) 10 ppm Silicon Dioxide (CAS **TWA** 5 mg/m3 112945-52-5) titanium dioxide [in powder **TWA** 10 mg/m3 Dust. form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7) France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984 Components Value **Type** titanium dioxide [in powder **VME** 10 mg/m3 form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7) Regulatory status: Indicative limit (VL) Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as updated Components **Form Type** Value TWA benzyl alcohol (CAS 22 mg/m3 Vapor and aerosol. 100-51-6) Vapor and aerosol. 5 ppm Silicon Dioxide (CAS **TWA** 4 mg/m3 Inhalable fraction. 112945-52-5) titanium dioxide [in powder **TWA** 0,3 mg/m3 Respirable fraction. form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (ČAS 13463-67-7) Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace **Form** Components Value Type benzyl alcohol (CAS AGW 22 mg/m3 Vapor and aerosol. 100-51-6) 5 ppm Vapor and aerosol.

Material name: Putty Hardener - ITWPP - Danvers

SDS EU

Components	s in the Ambient Air at the Workpl Type	Value	Form
Silicon Dioxide (CAS 112945-52-5)	AGW	4 mg/m3	Inhalable fraction.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)	AGW	10 mg/m3	Inhalable fraction.
1(		1,25 mg/m3	Respirable fraction.
Greece. OELs, Presidential Decre Components	e No. 307/1986, as amended Type	Value	Form
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Inhalable
Iceland. OELs. Regulation 390/20 Components	09 on Pollution Limits and Measu Type	res to Reduce Pollution at Value	the Workplace, as amended Form
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	TWA	6 mg/m3	
		1 ppm	
Silicon Dioxide (CAS 112945-52-5)	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
		0,5 mg/m3	Dust.
titanium dioxide [in powder form containing 1 % or more of particles with	TWA	6 mg/m3	
aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)			
μm] (ČAS 13463-67-7)	Code of Practice for Chemical Aç Type	ents and Carcinogens Re Value	gulations Form
µm] (ČAS 13463-67-7)  Ireland. OELVs, Schedules 1 & 2,  Components  Silicon Dioxide (CAS	-		_
µm] (ČAS 13463-67-7)  Ireland. OELVs, Schedules 1 & 2,  Components  Silicon Dioxide (CAS	Туре	Value	Form
µm] (ČAS 13463-67-7)  Ireland. OELVs, Schedules 1 & 2, Components  Silicon Dioxide (CAS 112945-52-5)  titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10	Туре	Value 6 mg/m3	Form  Total inhalable dust.
μm] (ČAS 13463-67-7)  Ireland. OELVs, Schedules 1 & 2, Components  Silicon Dioxide (CAS 112945-52-5)  titanium dioxide [in powder form containing 1 % or more of particles with	<b>Type</b> TWA	Value 6 mg/m3 2,4 mg/m3	Form  Total inhalable dust.  Respirable dust.
reland. OELVs, Schedules 1 & 2, Components  Silicon Dioxide (CAS 112945-52-5)  ditanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)  taly. OELs (Legislative Decree n.	Type  TWA  TWA	Value 6 mg/m3 2,4 mg/m3 4 mg/m3	Form  Total inhalable dust.  Respirable dust.  Respirable dust.
Ireland. OELVs, Schedules 1 & 2, Components  Silicon Dioxide (CAS 112945-52-5)  Ititanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10  µm] (CAS 13463-67-7)  Italy. OELs (Legislative Decree n. Components  Ititanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10	Type  TWA  TWA  81, 9 April 2008), as amended	Value 6 mg/m3 2,4 mg/m3 4 mg/m3	Form  Total inhalable dust.  Respirable dust.  Respirable dust.  Total inhalable dust.
Ireland. OELVs, Schedules 1 & 2, Components  Silicon Dioxide (CAS 112945-52-5)  Ititanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10  µm] (CAS 13463-67-7)  Italy. OELs (Legislative Decree n. Components  Ititanium dioxide [in powder form containing 1 % or more of particles with	Type  TWA  TWA  81, 9 April 2008), as amended Type	Value 6 mg/m3 2,4 mg/m3 4 mg/m3 10 mg/m3  Value	Form  Total inhalable dust.  Respirable dust.  Respirable dust.  Total inhalable dust.  Form  Respirable finescale
lireland. OELVs, Schedules 1 & 2, Components  Silicon Dioxide (CAS 112945-52-5)  Ititanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)  Italy. OELs (Legislative Decree n. Components  Itanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)  Latvia. OELs. Occupational Expose	Type  TWA  TWA  81, 9 April 2008), as amended Type	Value 6 mg/m3 2,4 mg/m3 4 mg/m3  10 mg/m3  Value 2,5 mg/m3	Form  Total inhalable dust.  Respirable dust.  Respirable dust.  Total inhalable dust.  Form  Respirable finescale particles  Respirable nanoscale particles
Ireland. OELVs, Schedules 1 & 2, Components  Silicon Dioxide (CAS 112945-52-5)  Itianium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)  Italy. OELs (Legislative Decree n. Components  Itianium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	Type  TWA  TWA  81, 9 April 2008), as amended Type  TWA	Value 6 mg/m3 2,4 mg/m3 4 mg/m3  10 mg/m3  Value 2,5 mg/m3	Form  Total inhalable dust.  Respirable dust.  Respirable dust.  Total inhalable dust.  Form  Respirable finescale particles  Respirable nanoscale particles
Ireland. OELVs, Schedules 1 & 2, Components  Silicon Dioxide (CAS 112945-52-5)  Ititanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)  Italy. OELs (Legislative Decree n. Components  Itanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)  Latvia. OELs. Occupational Exposition, as amended	Type  TWA  TWA  81, 9 April 2008), as amended Type  TWA  TWA	Value 6 mg/m3 2,4 mg/m3 4 mg/m3  10 mg/m3  Value 2,5 mg/m3  0,2 mg/m3  ces at Workplace (Reg. No.	Form  Total inhalable dust.  Respirable dust.  Respirable dust.  Total inhalable dust.  Form  Respirable finescale particles  Respirable nanoscale particles

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

Components	Туре	Value
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	10 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	Туре	Value	
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	STEL	12 mg/m3	
		2 ppm	
	TWA	6 mg/m3	
		1 ppm	
benzyl alcohol (CAS 100-51-6)	TWA	5 mg/m3	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	5 mg/m3	

#### 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	Туре	Value	Form
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	TLV	6 mg/m3	
		1 ppm	
Silicon Dioxide (CAS 112945-52-5)	TLV	1,5 mg/m3	Respirable dust.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TLV	5 mg/m3	

# Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz.

1286/2018, Annex 1) Components	Туре	Value	Form
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	STEL	3 mg/m3	
	TWA	1 mg/m3	
benzyl alcohol (CAS 100-51-6)	TWA	240 mg/m3	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	STEL	30 mg/m3	
	TWA	10 mg/m3	Inhalable fraction.
Portugal. VLEs. Norm on occupat Components	ional exposure to chemical a Type	gents (NP 1796-2014) Value	

# **TWA**

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (ČAS 13463-67-7)

10 mg/m3

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

Components	Туре	Value	
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	STEL	20 mg/m3	
		3,3 ppm	
	TWA	10 mg/m3	
		1,7 ppm	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	STEL	15 mg/m3	
	TWA	10 mg/m3	

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

Components	Туре	Value	
Silicon Dioxide (CAS 112945-52-5)	TWA	0,3 mg/m3	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	5 mg/m3	

# 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	Туре	Value	Form
benzyl alcohol (CAS 100-51-6)	TWA	22 mg/m3	
		5 ppm	
Silicon Dioxide (CAS 112945-52-5)	TWA	4 mg/m3	Inhalable fraction.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	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	Туре	Value	
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	10 mg/m3	

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

Components	Туре	Value	Form	
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	STEL	12 mg/m3		
		2 ppm		
	TWA	6 mg/m3		
		1 ppm		
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA	5 mg/m3	Total dust.	

Components	erte am Arbeitsplatz: Aktuelle Type		Value	Form
benzyl alcohol (CAS 100-51-6)	TWA		22 mg/m3	Vapor and aerosol.
			5 ppm	Vapor and aerosol.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA		3 mg/m3	Respirable dust.
UK. OELs. Workplace Expo Components	sure Limits (WELs) (EH40/20 Type	05 (Fourth Edition 2	2020)), Table 1 Value	Form
Silicon Dioxide (CAS 112945-52-5)	TWA		6 mg/m3	Inhalable dust.
			2,4 mg/m3	Respirable dust.
titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)	TWA		4 mg/m3	Respirable.
			10 mg/m3	Inhalable
logical limit values	No biological exposure limits	noted for the ingred	ient(s).	
commended monitoring cedures	Follow standard monitoring p	procedures.		
rived no effect levels IELs)	Not available.			
dicted no effect ncentrations (PNECs)	Not available.			
oosure guidelines	Occupational Exposure Limit	ts are not relevant to	the current physic	al form of the product.
Germany DFG MAK (adviso	ory): Skin designation			
benzyl alcohol (CAS 100 Germany TRGS 900 Limit V		Can be absorbed	through the skin.	
benzyl alcohol (CAS 100 Lithuania OELs: Skin desig		Can be absorbed	through the skin.	
benzyl alcohol (CAS 100 Slovenia. OELs. Regulation (Official Gazette of the Rep	s concerning protection of w	Can be absorbed rorkers against risk		e to chemicals while worki
benzyl alcohol (CAS 100 Switzerland SUVA Limit Val	-51-6) lues at the Workplace: Skin d	Can be absorbed lesignation	through the skin.	
benzyl alcohol (CAS 100	-51-6)	Can be absorbed	through the skin.	
Exposure controls				
oropriate engineering ntrols	Good general ventilation sho applicable, use process encl maintain airborne levels belo established, maintain airborr shower.	osures, local exhaus ow recommended exp	t ventilation, or oth posure limits. If exp	er engineering controls to posure limits have not been
	, such as personal protective			
General information	Use personal protective equipment as required. Personal protection equipment should be choser 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) and a face shield. Face shield is recommended.			

Material name: Putty Hardener - ITWPP - Danvers

Skin protection - Hand protection

Thermal hazards

Respiratory protection

- Other

recommended.

Wear appropriate chemical resistant gloves.

SDS EU 10 / 16 0200C Version #: 12 Revision date: 08-02-2023 Issue date: 07-03-2019

In case of insufficient ventilation, wear suitable respiratory equipment.

Wear appropriate thermal protective clothing, when necessary.

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

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. 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 stateSolid.FormPaste.ColorWhite

Odor Ammoniacal.

Melting point/freezing point Boiling point or initial boiling point and boiling range 4,64 °F (-15,2 °C) estimated 420,8 °F (216 °C) estimated

Flammability Not available.

Flash point >199,9 °F (>93,3 °C)

**Auto-ignition temperature** 640 °F (337,78 °C) estimated

Decomposition temperatureNot available.pHNot available.Kinematic viscosityNot available.

Solubility

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water) (log value)

Vapor pressure 5,73 hPa estimated

Density and/or relative density

**Density** 1,00 g/cm3 estimated

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 estimated

#### 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**Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**10.5. Incompatible materials** Peroxides. Phenols.

**10.6. Hazardous** No hazardous decomposition products are known.

decomposition products

### **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** Causes skin irritation. May cause an allergic skin reaction.

**Eye contact** Causes serious eye damage.

**Ingestion** May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

**Symptoms** 

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. 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

Not known. **Acute toxicity** 

Components **Species Test Results** 

3,6-diazaoctanethylenediamin; triethylenetetramine (CAS 112-24-3)

**Acute Dermal** 

Liauid

LD50 Rat 1465 mg/kg

Oral

Liquid

LD50 Rat 1716 mg/kg

benzyl alcohol (CAS 100-51-6)

**Acute** Dermal

Rabbit LD50 2000 mg/kg

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (CAS 13463-67-7)

Acute **Dermal** 

LD50 Hamster >= 10000 mg/kg

Oral

LD50 Rat > 10000 mg/kg

Causes skin irritation. Skin corrosion/irritation

Serious eye damage/eye

irritation

Causes serious eye damage.

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. 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)

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)

IARC Monographs. Overall Evaluation of Carcinogenicity

titanium dioxide [in powder form containing 1 % or more 2B Possibly carcinogenic to humans. of particles with aerodynamic diameter ≤ 10 µm]

(CAS 13463-67-7)

Due to partial or complete lack of data the classification is not possible. Reproductive toxicity

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -Due to partial or complete lack of data the classification is not possible. repeated exposure

Due to partial or complete lack of data the classification is not possible. **Aspiration hazard** 

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)

benzyl alcohol 1,1

**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 The product contains volatile organic compounds which have a photochemical ozone creation

potential.

12.8. Additional information

Estonia Dangerous substances in soil Data

benzyl alcohol (CAS 100-51-6) Chemical pesticides (As the total sum of the active substances)

0,5 MG/KG

Chemical pesticides (As the total sum of the active substances) 20

MG/KG

Chemical pesticides (As the total sum of the active substances) 5

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).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

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. Not regulated as dangerous goods. 14.2. UN proper shipping

name

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 Not assigned.

for user

RID

Not regulated as dangerous goods. 14.1. UN number Not regulated as dangerous goods. 14.2. UN proper shipping

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk 14.4. Packing group 14.5. Environmental hazards No.

14.6. Special precautions

Not assigned. for user

ADN

14.1. UN number 14.2. UN proper shipping Not regulated as dangerous goods. Not regulated as dangerous goods.

14.3. Transport hazard class(es)

Not assigned. Class

Subsidiary risk 14.4. Packing group 14.5. Environmental hazards No.

Not assigned. 14.6. Special precautions

for user

**IATA** 

14.1. UN number Not regulated as dangerous goods. 14.2. UN proper shipping 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 Not assigned.

for user

**IMDG** 

14.1. UN number Not regulated as dangerous goods. Not regulated as dangerous goods. 14.2. UN proper shipping

name

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. Not assigned.

14.6. Special precautions

for user

14.7. Maritime transport in bulk Not applicable.

according to IMO instruments

#### **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

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

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

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (CAS 13463-67-7)

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

Not listed.

#### **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

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

Not listed.

Other 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.

Young people under 18 years old are not allowed to work with this product according to EU **National regulations** 

> 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

titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]

Gipsfasernund Wollastonitfasern)

Anorganische Faserstäube, soweit nicht erwähnt (ausgenommen

(CAS 13463-67-7)

#### France regulations

#### France INRS Table of Occupational Diseases

Not regulated.

15.2. Chemical safety

No Chemical Safety Assessment has been carried out.

assessment

#### **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

H302 Harmful if swallowed.

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.

H332 Harmful if inhaled.

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

**Revision information** 

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.

Material name: Putty Hardener - ITWPP - Danvers