SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture	Phillymastic TG-7B Paste Hardener
Registration number	-
Synonyms	None.
SKU#	3331H

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 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

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Acute toxicity, dermal	Category 4	H312 - Harmful in contact with skin.
Skin corrosion/irritation	Category 1B	H314 - Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.
Skin sensitization	Category 1	H317 - May cause an allergic skin reaction.

2.2. Label elements

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

UFI:

Austria: 1EE0-T0GF-A00Y-010R
Belgium: 1EE0-T0GF-A00Y-010R
Bulgaria: 1EE0-T0GF-A00Y-010R
Croatia: 1EE0-T0GF-A00Y-010R
Cyprus: 1EE0-T0GF-A00Y-010R
Czech Republic: 1EE0-T0GF-A00Y-010R
Denmark: 1EE0-T0GF-A00Y-010R
Estonia: 1EE0-T0GF-A00Y-010R
EU: 1EE0-T0GF-A00Y-010R
Finland: 1EE0-T0GF-A00Y-010R
France: 1EE0-T0GF-A00Y-010R
Germany: 1EE0-T0GF-A00Y-010R
Greece: 1EE0-T0GF-A00Y-010R
Hungary: 1EE0-T0GF-A00Y-010R
Iceland: 1EE0-T0GF-A00Y-010R
Ireland: 1EE0-T0GF-A00Y-010R
Italy: 1EE0-T0GF-A00Y-010R
Latvia: 1EE0-T0GF-A00Y-010R
Lithuania: 1EE0-T0GF-A00Y-010R
Luxembourg: 1EE0-T0GF-A00Y-010R
Malta: 1EE0-T0GF-A00Y-010R
Netherlands: 1EE0-T0GF-A00Y-010R
Norway: 1EE0-T0GF-A00Y-010R
Poland: 1EE0-T0GF-A00Y-010R
Portugal: 1EE0-T0GF-A00Y-010R
Romania: 1EE0-T0GF-A00Y-010R
Slovakia: 1EE0-T0GF-A00Y-010R
Slovenia: 1EE0-T0GF-A00Y-010R
Spain: 1EE0-T0GF-A00Y-010R
Sweden: 1EE0-T0GF-A00Y-010R

Contains: 3,6-diazaoctanethylenediamin; triethylenetetramine, Crystalline SiO2 (Quartz), Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling; Gasoil — unspecified [A complex combination of hydrocarbons from the distillation of catalytic reformer fractionator residue. It boils in the range of approximately 28, PINE OIL

Hazard pictograms

Signal word Danger

Hazard statements

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.

Precautionary statements

Prevention

P260	Do not breathe vapor.
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.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

P330	Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Storage

P405	Store locked up.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental label information	80% 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
Crystalline SiO2 (Quartz)	60 - 100	14808-60-7 238-878-4	-	-	#
Classification: Carc. 1A;H350					
3,6-diazaoctanethylenediamin; triethylenetetramine	10 - 30	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					
Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling; Gasoil — unspecified [A complex combination of hydrocarbons from the distillation of catalytic reformer fractionator residue. It boils in the range of approximately 28	1 - 5	68477-30-5 270-721-5	-	649-229-00-3	
Classification: Carc. 1B;H350					
PINE OIL	1 - 5	8002-09-3 -	-	-	
Classification: Flam. Liq. 3;H226, Skin Irrit. 2;H315, Skin Sens. 1;H317, Muta. 2;H341, Carc. 2;H351, Asp. Tox. 1;H304, Aquatic Acute 1;H400, Aquatic Chronic 1;H410					

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. Chemical burns must be treated by a physician. 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 Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and delayed Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. 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 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 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 breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders Keep unnecessary personnel away. Ensure adequate ventilation. Avoid breathing mist/vapors. 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 discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up 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 breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities Store locked up. 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
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	MAK	0,05 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	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.

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

Components	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable fraction and dust

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

Components	Type	Value
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	MAC	0,1 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	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.

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

Components	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TLV	0,3 mg/m3	Total
		0,1 mg/m3	Respirable.

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

Components	Type	Value	Form
3,6-diazaoctanethylenediamin; triethylenetetramine (CAS 112-24-3)	STEL	12 mg/m3	
	TWA	6 mg/m3	
		1 ppm	
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m3	Fine dust, respiratory fraction

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

Components	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,05 mg/m3	Respirable.

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

Components	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	VME	0,1 mg/m3	Respirable dust.

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

Components	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	VME	0,1 mg/m3	Respirable fraction.

Regulatory status: Regulatory binding (VRC)

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

Components	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,1 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-diazaoctanethylenediamin; triethylenetetramine (CAS 112-24-3)	TWA	6 mg/m3	
		1 ppm	
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,3 mg/m3	Total dust.
		0,1 mg/m3	Respirable dust.

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

Components	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.

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

Components	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,025 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	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.

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

Components	Type	Value	Form
3,6-diazaoctanethylenediamin; triethylenetetramine (CAS 112-24-3)	STEL	12 mg/m3	
		2 ppm	
	TWA	6 mg/m3	
		1 ppm	
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable fraction.

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

Components	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.

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

Components	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,075 mg/m3	Respirable dust.

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

Components	Type	Value	Form
3,6-diazaoctanethylenediamin; triethylenetetramine (CAS 112-24-3)	TLV	6 mg/m3	
		1 ppm	
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TLV	0,3 mg/m3	Total dust.
		0,05 mg/m3	Respirable dust.

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

Components	Type	Value	Form
3,6-diazaoctanethylenediamin; triethylenetetramine (CAS 112-24-3)	STEL	3 mg/m3	
	TWA	1 mg/m3	
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable fraction.

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

Components	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,025 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
3,6-diazaoctanethylenediamin; triethylenetetramine (CAS 112-24-3)	STEL	20 mg/m3
		3,3 ppm
	TWA	10 mg/m3
		1,7 ppm

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

Components	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable fraction.

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

Components	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,05 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-diazaoctanethylenediamin; triethylenetetramine (CAS 112-24-3)	STEL	12 mg/m3	
		2 ppm	
	TWA	6 mg/m3	
		1 ppm	
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte

Components	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,15 mg/m3	Respirable fraction.

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

Components	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable.

EU. OELs, Directive 2004/37/EC on carcinogen and mutagens from Annex III, Part A, as amended

Components	Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable fraction and dust

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

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no effect levels (DNELs) Not available.

Predicted no effect concentrations (PNECs) Not available.

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. Eye wash facilities and emergency shower must be available when handling this product.

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) and a face shield. 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	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	Liquid.
Form	Liquid.
Color	Pale straw-yellow
Odor	Amine-like.
Melting point/freezing point	Not available.
Boiling point or initial boiling point and boiling range	>450 °F (>232,22 °C)
Flammability	Not applicable.
Flash point	244,4 °F (118,0 °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	Not available.
Density and/or relative density	
Density	1,73
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	1,73

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	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 May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes severe skin burns. Harmful in contact with skin. May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns. Harmful if swallowed.

Symptoms Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

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		
Liquid		
LD50	Rat	1465 mg/kg
Oral		
Liquid		
LD50	Rat	1716 mg/kg
PINE OIL (CAS 8002-09-3)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		
LD50	Rat	3200 mg/kg

Skin corrosion/irritation Causes severe skin burns and eye damage.

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 No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

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

Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling; Gasoil — unspecified [A complex combination of hydrocarbons from the distillation of catalytic reformer fractionator residue. It boils in the range of approximately 28 (CAS 68477-30-5)

IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline SiO2 (Quartz) (CAS 14808-60-7) 1 Carcinogenic to humans.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

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	Based on available data, the classification criteria are not met for hazardous to the aquatic environment.
12.2. Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol/water (log Kow)	Not available.
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

PINE OIL (CAS 8002-09-3)	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).
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. 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	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S. (3,6-diazaoctanethylenediamin; triethylenetetramine)
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
Hazard No. (ADR)	80
Tunnel restriction code	E
14.4. Packing group	III
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S. (Triethylenetetraamine (TETA))
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
14.4. Packing group	II
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S. (3,6-diazaoctanethylenediamin; triethylenetetramine)
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
Label(s)	8
14.4. Packing group	III
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number	UN1760
14.2. UN proper shipping name	Corrosive liquid, n.o.s. (Triethylenetetraamine (TETA))
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
14.4. Packing group	II
14.5. Environmental hazards	No.
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.

IMDG

14.1. UN number	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S. (Triethylenetetraamine (TETA))
14.3. Transport hazard class(es)	
Class	8
Subsidiary risk	-
14.4. Packing group	II
14.5. Environmental hazards	
Marine pollutant	No.
EmS	F-A, S-B
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

14.7. Maritime transport in bulk according to IMO instruments Not established.

ADN; ADR; IATA; IMDG; RID

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

Not listed.

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

Not listed.

UFI:

Austria: 1EE0-T0GF-A00Y-010R
Belgium: 1EE0-T0GF-A00Y-010R
Bulgaria: 1EE0-T0GF-A00Y-010R
Croatia: 1EE0-T0GF-A00Y-010R
Cyprus: 1EE0-T0GF-A00Y-010R
Czech Republic: 1EE0-T0GF-A00Y-010R
Denmark: 1EE0-T0GF-A00Y-010R
Estonia: 1EE0-T0GF-A00Y-010R
EU: 1EE0-T0GF-A00Y-010R
Finland: 1EE0-T0GF-A00Y-010R
France: 1EE0-T0GF-A00Y-010R
Germany: 1EE0-T0GF-A00Y-010R
Greece: 1EE0-T0GF-A00Y-010R
Hungary: 1EE0-T0GF-A00Y-010R
Iceland: 1EE0-T0GF-A00Y-010R
Ireland: 1EE0-T0GF-A00Y-010R
Italy: 1EE0-T0GF-A00Y-010R
Latvia: 1EE0-T0GF-A00Y-010R
Lithuania: 1EE0-T0GF-A00Y-010R
Luxembourg: 1EE0-T0GF-A00Y-010R
Malta: 1EE0-T0GF-A00Y-010R
Netherlands: 1EE0-T0GF-A00Y-010R
Norway: 1EE0-T0GF-A00Y-010R
Poland: 1EE0-T0GF-A00Y-010R
Portugal: 1EE0-T0GF-A00Y-010R
Romania: 1EE0-T0GF-A00Y-010R
Slovakia: 1EE0-T0GF-A00Y-010R
Slovenia: 1EE0-T0GF-A00Y-010R
Spain: 1EE0-T0GF-A00Y-010R
Sweden: 1EE0-T0GF-A00Y-010R

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

Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling; Gasoil — unspecified [A complex combination of hydrocarbons from the distillation of catalytic reformer fractionator residue. It boils in the range of approximately 28 (CAS 68477-30-5)

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

Distillates (petroleum), catalytic reformer fractionator residue, intermediate-boiling; Gasoil — unspecified [A complex combination of hydrocarbons from the distillation of catalytic reformer fractionator residue. It boils in the range of approximately 28 (CAS 68477-30-5)
Crystalline SiO2 (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.

France regulations

France INRS Table of Occupational Diseases

Crystalline SiO2 (Quartz) (CAS 14808-60-7)	Affections consécutives à l'inhalation de poussières minérales renfermant de la silicecristalline (quartz, cristobalite, tridymite), des silicates cristallins (kaolin, talc), du graphite ou de la houille 25

Product registration number

Austria	UFI: 1EE0-T0GF-A00Y-010R
Belgium	UFI: 1EE0-T0GF-A00Y-010R
Czech Republic	UFI: 1EE0-T0GF-A00Y-010R
Denmark	UFI: 1EE0-T0GF-A00Y-010R
European Union	UFI: 1EE0-T0GF-A00Y-010R
Finland	UFI: 1EE0-T0GF-A00Y-010R
France	UFI: 1EE0-T0GF-A00Y-010R
Germany	UFI: 1EE0-T0GF-A00Y-010R
Greece	UFI: 1EE0-T0GF-A00Y-010R
Hungary	UFI: 1EE0-T0GF-A00Y-010R
Italy	UFI: 1EE0-T0GF-A00Y-010R
Netherlands	UFI: 1EE0-T0GF-A00Y-010R
Norway	UFI: 1EE0-T0GF-A00Y-010R
Poland	UFI: 1EE0-T0GF-A00Y-010R
Portugal	UFI: 1EE0-T0GF-A00Y-010R
Slovakia	UFI: 1EE0-T0GF-A00Y-010R
Slovenia	UFI: 1EE0-T0GF-A00Y-010R
Spain	UFI: 1EE0-T0GF-A00Y-010R
Sweden	UFI: 1EE0-T0GF-A00Y-010R
Switzerland	UFI: 1EE0-T0GF-A00Y-010R

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

H226 Flammable liquid and vapor.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H341 Suspected of causing genetic defects.
H350 May cause cancer.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.
H410 Very 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.