

## SPU03 - POLYGREY

### Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

##### 1.1. Product identifier

Code: SPU03  
Product name: POLYGREY

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

Intended use: Structural mounting adhesive

Identified Uses	Industrial	Professional	Consumer
Professional uses: public sector (administration, education, entertainment, services, crafts)	-	ERC: 8b, 8e. PROC: 10, 11, 19. PC: 1.	-

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

Name: Industria Chimica General S.r.l.  
Full address: Via Repubblica di San Marino 8  
District and Country: 41122 Modena (MO) Italy  
Tel.: (+39) 059 450991 / 059 450978  
Fax: (+39) 059 450615  
e-mail address of the competent person responsible for the Safety Data Sheet: ricerca@generalchemical.it

Supplier: Industria Chimica General S.r.l.

##### 1.4. Emergency telephone number

For urgent inquiries refer to:

Milano, Italy	(+39) 02 66101029	Centro Antiveleni Ospedale Niguarda Ca'
Granda		
Pavia, Italy	(+39) 0382 24444	Centro Antiveleni IRCSS Fondazione Maugeri
Bergamo, Italy	(+39) 800 883300	Centro Antiveleni Ospedali Riuniti
Firenze, Italy	(+39) 055 7947819	Centro Antiveleni Ospedale Careggi
Roma, Italy	(+39) 06 3054343	Centro Antiveleni Policlinico Gemelli
Roma, Italy	(+39) 06 49978000	Centro Antiveleni Policlinico Umberto I
Napoli, Italy	(+39) 081 7472870	Centro Antiveleni Ospedale Cardarelli

#### SECTION 2. Hazards identification

##### 2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2020/878.

Hazard classification and indication: --

##### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

## SPU03 - POLYGREY

### SECTION 2. Hazards identification ... / >>

Hazard pictograms: --

Signal words: --

Hazard statements:

**EUH210**

Safety data sheet available on request.

Precautionary statements: --

**Contains:**

trimethoxyvinylsilane; trimethoxy(vinyl)silane

Product not intended for uses provided for by Directive 2004/42/EC.

#### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

trimethoxyvinylsilane; trimethoxy(vinyl)silane

Aerosol inhalation can cause damage to health.

The product hydrolysis with methanol formation (nr. Cas 67-56-1). Methanol is classified both in relation to physical dangers and to the dangers for health. The speed of hydrolysis and therefore also the relevance for the danger of the product depend strongly on the specific conditions.

Interferent properties with the endocrine - human health system: the substance/mixture does not contain components considered having the properties of endocrine interference pursuant to article 57 (f) of the Reach or the delegated regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission at levels of 0.1% or higher.

Interferent properties with the Endocrine - Environment System: the substance/mixture does not contain components considered having endocrine interference properties pursuant to article 57 (f) of the Reach or the delegated regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission at levels of 0.1% or higher.

### SECTION 3. Composition/information on ingredients

#### 3.2. Mixtures

Contains:

Identification **x = Conc. %** **Classification (EC) 1272/2008 (CLP)**

##### **CALCIUM CARBONATE**

INDEX

$19 \leq x < 25$

EC 207-439-9

CAS 471-34-1

REACH Reg. *Esente ai sensi dell'Allegato V.7 del Regolamento CE 1907/2006 (REACH)*

##### **trimethoxyvinylsilane; trimethoxy(vinyl)silane**

INDEX 014-049-00-0  $1 \leq x < 5$

EC 220-449-8

CAS 2768-02-7

REACH Reg. 01-2119513215-52

##### **CALCIUM CARBONATE PCC**

INDEX

$1 \leq x < 5$

EC 207-439-9

CAS 471-34-1

REACH Reg. 01-2119486795-18

##### **Carbon black**

INDEX

$0,5 \leq x < 1$

EC 215-609-9

CAS 1333-86-4

REACH Reg. 01-2119384822-32

##### **(3-aminopropyl) trimethoxysilane**

INDEX

$0,5 \leq x < 1$

EC 237-511-5

CAS 13822-56-5

REACH Reg. 01-2119510159-45

**Flam. Liq. 3 H226, Acute Tox. 4 H332, Skin Sens. 1B H317**  
**LC50 Inhalation vapours: 16,8 mg/l/4h**

**Substance with a community workplace exposure limit.**

**Eye Dam. 1 H318, Skin Irrit. 2 H315**

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## SECTION 3. Composition/information on ingredients ... / &gt;&gt;

**Bis(2,2,6,6-tetramethyl-4-piperidine)sebacate**

INDEX 0,1 ≤ x &lt; 0,5

Repr. 2 H361f, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

EC 258-207-9

CAS 52829-07-9

REACH Reg. 01-2119537297-32

**methanol**

INDEX 603-001-00-X 0 ≤ x &lt; 0

Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE 1 H370

EC 200-659-6

CAS 67-56-1

STOT SE 2 H371: ≥ 3%

STA Oral: 100 mg/kg, STA Dermal: 300 mg/kg, STA Inhalation vapours: 3 mg/l

REACH Reg. 01-2119392409-28

**toluene**

INDEX 601-021-00-3 0,001 ≤ x &lt; 0,005

Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 3 H412

EC 203-625-9

CAS 108-88-3

REACH Reg. 01-2119471310-51

The full wording of hazard (H) phrases is given in section 16 of the sheet.

Carbon black

Substance with a workplace exposure limit

**Supplementary information for nanoforms****Carbon black****Shape****Shape 1:**

Shape name

sferoidale

Category

spheroidal

D10

6 - 30

nm

D50

10 - 53

nm

D90

23 - 144

nm

**Surface functionalisation / treatment****Surface treatments 1:**

## SECTION 4. First aid measures

## 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

## 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

## SECTION 5. Firefighting measures

## 5.1. Extinguishing media

## SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

## UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

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## SECTION 5. Firefighting measures ... / &gt;&gt;

## 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE  
Do not breathe combustion products.

## 5.3. Advice for firefighters

## GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

## SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

## 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

## 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

## 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

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

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

## 7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection

## 8.1. Control parameters

Regulatory references:

DEU	Deutschland	Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58
ESP	España	Límites de exposición profesional para agentes químicos en España 2023
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France Décret n° 2021-1849 du 28 décembre 2021

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### SECTION 8. Exposure controls/personal protection ... / >>

GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία"»
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2023

### CALCIUM CARBONATE

#### Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
MAK	DEU	10				INHAL
MAK	DEU	3				RESP
VLA	ESP	10				INHAL
VLA	ESP	3				RESP
VLEP	FRA	10				INHAL
VLEP	FRA	5				RESP
TLV	GRC	10				INHAL
TLV	GRC	5				RESP
VLEP	ITA	10				INHAL
VLEP	ITA	3				RESP
VLE	PRT	10				INHAL
VLE	PRT	5				RESP
TLV	ROU	10				RESP
WEL	GBR	10				INHAL
WEL	GBR	4				RESP

#### Predicted no-effect concentration - PNEC

Normal value in fresh water	NPI
Normal value in marine water	NPI
Normal value for fresh water sediment	NPI
Normal value for marine water sediment	NPI
Normal value for water, intermittent release	NPI
Normal value of STP microorganisms	100 mg/l
Normal value for the food chain (secondary poisoning)	NPI
Normal value for the terrestrial compartment	NPI
Normal value for the atmosphere	NPI

#### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	NPI	NPI	NPI	NPI				
Inhalation	NPI	NPI	1,06 mg/m3	10 mg/m3	NPI	NPI	4,26 mg/m3	10 mg/m3
Skin	NPI	NPI	NPI	NPI	NPI	NPI	NPI	NPI

## SPU03 - POLYGREY

## SECTION 8. Exposure controls/personal protection ... / &gt;&gt;

## trimethoxyvinylsilane; trimethoxy(vinyl)silane

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLEP	ITA	10	200			INHAL	Aerosol
WEL	GBR	266	200	333	250	SKIN	Methanol
TLV-ACGIH		262	200	328	250	SKIN	Metanolo

## Predicted no-effect concentration - PNEC

Normal value in fresh water	0,4	mg/l
Normal value in marine water	0,04	mg/l
Normal value for fresh water sediment	1,5	mg/kg
Normal value for marine water sediment	0,15	mg/kg
Normal value for water, intermittent release	2,4	mg/l
Normal value of STP microorganisms	6,6	mg/l
Normal value for the terrestrial compartment	0,06	mg/kg

## Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	0,3 mg/kg/d				
Inhalation	VND	0,7 mg/m3	VND	6,7 mg/m3			VND	27,6 mg/m3
Skin	VND	0,1 mg/kg/d	VND	7,8 mg/kg/d		0,2 mg/kg/d	VND	3,9 mg/kg/d

## CALCIUM CARBONATE PCC

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
OEL	EU	10				INHAL	
OEL	EU	3				RESP	
TLV-ACGIH		10				INHAL	
TLV-ACGIH		3				RESP	

## Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation			1,06 mg/m3	10 mg/m3			4,26 mg/m3	10 mg/m3

## (3-aminopropyl) trimethoxysilane

## Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLEP	ITA	260	200			67-56-1	Metanolo
OEL	EU	260	200				Metanolo/Methanol
TLV-ACGIH		10				INHAL	Aerosol

## Predicted no-effect concentration - PNEC

Normal value in fresh water	0,33	mg/l
Normal value in marine water	0,033	mg/l
Normal value for fresh water sediment	0,26	mg/kg
Normal value of STP microorganisms	13	mg/l
Normal value for the terrestrial compartment	0,04	mg/kg

## Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				5 mg/kg bw/d				
Inhalation	VND	17,4 mg/m3	VND	17 mg/m3	VND	58 mg/m3	VND	58 mg/m3 1h
Skin	VND	5 mg/kg bw/d	VND	5 mg/kg bw/d	VND	8,3 mg/kg/d	VND	8,3 mg/kg/d

SECTION 8. Exposure controls/personal protection ... / >>

Carbon black

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
VLA	ESP	3,5				
VLEP	FRA	3,5				INHAL
TLV	GRC	3,5		7		
VLEP	ITA	3				INHAL
VLE	PRT	3				
NDS/NDSch	POL	4				INHAL
WEL	GBR	3,5		7		INHAL
TLV-ACGIH		3				INHAL

Bis(2,2,6,6-tetramethyl-4-piperidine)sebacate

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,004	mg/l
Normal value in marine water	0,00038	mg/l
Normal value for fresh water sediment	5,9	mg/kg
Normal value for marine water sediment	0,59	mg/kg
Normal value for water, intermittent release	0,01	mg/l
Normal value of STP microorganisms	1	mg/l
Normal value for the terrestrial compartment	1,6	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,18 mg/kg bw/d				
Inhalation			0,31 mg/m3	0,31 mg/m3			0,31 mg/m3	1,27 mg/m3
Skin			0,9 mg/kg bw/d	0,9 mg/kg bw/d			0,9 mg/kg bw/d	1,8 mg/kg bw/d

SECTION 8. Exposure controls/personal protection ... / >>

methanol								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	270	200	1080	800	SKIN		
MAK	DEU	130	100	260	200	SKIN		
VLA	ESP	266	200			SKIN		
VLEP	FRA	260	200	1300	1000	SKIN	11	
TLV	GRC	260	200	325	250			
VLEP	ITA	260	200			SKIN		
VLE	PRT	260	200			SKIN		
NDS/NDSch	POL	100		300		SKIN		
TLV	ROU	260	200			SKIN		
WEL	GBR	266	200	333	250	SKIN		
OEL	EU	260	200					
TLV-ACGIH		262	200	328	250	SKIN		
Predicted no-effect concentration - PNEC								
Normal value in fresh water						154	mg/l	
Normal value in marine water						15,4	mg/l	
Normal value for fresh water sediment						570,4	mg/kg	
Normal value for water, intermittent release						1540	mg/l	
Normal value of STP microorganisms						100	mg/l	
Normal value for the terrestrial compartment						23,5	mg/kg	
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute	Acute	Chronic	Chronic	Acute	Acute	Chronic	Chronic
	local	systemic	local	systemic	local	systemic	local	systemic
Oral		4		4				
		mg/kg bw/d		mg/kg bw/d				
Inhalation	26	26	26	26	130	130	130	130
	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin	NPI	4	NPI	4	NPI	20	NPI	20
		mg/kg bw/d		mg/kg bw/d		mg/kg bw/d		mg/kg bw/d



SECTION 8. Exposure controls/personal protection ... / >>

toluene								
Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	190	50	760	200	SKIN		
MAK	DEU	190	50	380	100	SKIN		
VLA	ESP	192	50	384	100	SKIN		
VLEP	FRA	76,8	20	384	100	SKIN		
TLV	GRC	192	50	384	100			
VLEP	ITA	192	50			SKIN		
VLE	PRT	192	50	384	100	SKIN		
NDS/NDSch	POL	100		200		SKIN		
TLV	ROU	192	50	384	100	SKIN		
WEL	GBR	191	50	384	100	SKIN		
OEL	EU	192	50	384	100	SKIN		
TLV-ACGIH			20					
Predicted no-effect concentration - PNEC								
Normal value in fresh water						0,68	mg/l	
Normal value in marine water						0,68	mg/l	
Normal value for fresh water sediment						16,39	mg/kg	
Normal value for marine water sediment						16,39	mg/kg	
Normal value of STP microorganisms						13,61	mg/l	
Normal value for the terrestrial compartment						2,89	mg/kg	
Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers			Chronic systemic	Effects on workers			
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				8,13 mg/kg bw/d				
Inhalation	226 mg/m3	226 mg/m3	56,5 mg/m3	56,5 mg/m3	384 mg/m3	384 mg/m3	192 mg/m3	192 mg/m3
Skin				226 mg/kg bw/d				384 mg/kg bw/d

Legend:  
(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.  
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

trimethoxyvinylsilane; trimethoxy(vinyl)silane  
VLEP ITA 200 ppm Methanol

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

HAND PROTECTION

Protect your hands with category III work gloves (ref. Standard EN 374).

For the final choice of material for work gloves, the following must be considered: compatibility, degradation, breakage time and permeation. In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is unpredictable. Gloves have a wear time that depends on the duration and mode of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear splash goggles with side shields and / or protective visors complying with EN 166 and EN 165. Do not use eye lenses.

RESPIRATORY PROTECTION

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## SPU03 - POLYGREY

### SECTION 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	pasty	
Colour	grey	
Odour	mild	
Melting point / freezing point	< 5 °C	
Initial boiling point	> 100 °C	
Flammability	not flammable	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	not applicable	Reason for missing data:non infiammabile
Auto-ignition temperature	> 200 °C	
Decomposition temperature	100 °C	
pH	not available	Reason for missing data:substance/mixture is non-soluble (in water)
Kinematic viscosity	> 20,5 mm2/s	
Solubility	insoluble in water, soluble in organic solvents	
Partition coefficient: n-octanol/water	not applicable	Reason for missing data:Non si applica alle miscele
Vapour pressure	not available	
Density and/or relative density	1,5 kg/l	
Relative vapour density	not available	
Particle characteristics	not applicable	

#### 9.2. Other information

##### 9.2.1. Information with regard to physical hazard classes

Information not available

##### 9.2.2. Other safety characteristics

Total solids (250°C / 482°F)	96,85 %	
VOC (Directive 2010/75/EU)	3,15 % - 47,25	g/litre
VOC (volatile carbon)	1,27 % - 19,05	g/litre
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

### SECTION 10. Stability and reactivity

#### 10.1. Reactivity

There are no particular risks of reaction with other substances under normal conditions of use.

##### CALCIUM CARBONATE

Decomposes at temperatures above 800°C/1472°F.

##### CALCIUM CARBONATE PCC

Decomposes at temperatures above 800°C/1472°F.

##### toluene

Avoid exposure to: light.

#### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

##### toluene

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds.May form explosive mixtures with: air.May react dangerously with: strong oxidising agents,strong

## SPU03 - POLYGREY

### SECTION 10. Stability and reactivity ... / >>

acids,sulphur.

#### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

(3-aminopropyl) trimethoxysilane

Moisture, heat, open flames and other sources of ignition.

#### 10.5. Incompatible materials

CALCIUM CARBONATE

Incompatible with: acids.

CALCIUM CARBONATE PCC

Incompatible with: acids.

(3-aminopropyl) trimethoxysilane

Reacts with: water, basic substances and acids. The reaction occurs with the formation of methanol.

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

CALCIUM CARBONATE

May develop: calcium oxides,carbon oxides.

CALCIUM CARBONATE PCC

May develop: calcium oxides,carbon oxides.

(3-aminopropyl) trimethoxysilane

In case of hydrolysis: methanol. From checks it appears that at temperatures above 150°C, one is released due to oxidative decomposition  
small amount of formaldehyde.

### SECTION 11. Toxicological information

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

trimethoxyvinylsilane; trimethoxy(vinyl)silane

Additional toxicological information

Hydrolysis product / impurity: methanol (CAS 67-56-1) is well and rapidly absorbed through all routes of exposure and it is toxic regardless of the type of dose taken. Methanol can cause mucosal irritation, nausea, vomiting, headache, dizziness and visual disturbances, as well as blindness (irreversible damage to the optic nerve), acidosis, muscle cramps and coma. Delays in the onset of these effects may occur following exposure.

toluene

INHALATION May cause central nervous system depression. May cause drowsiness and dizziness; may cause damage to organs in case of prolonged or repeated exposure.

SKIN: Causes skin irritation;

EYES: Causes serious eye irritation;

INGESTION: Irritating to mouth, throat, stomach.

#### Metabolism, toxicokinetics, mechanism of action and other information

Information not available

#### Information on likely routes of exposure

methanol

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

toluene

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

methanol

The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

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### SECTION 11. Toxicological information ... / >>

#### toluene

Acute effects: contact with skin may cause irritation, erythema, edema, dryness and cracking. Inhalation of vapors may cause slight irritation of the upper respiratory tract. Being very volatile, it can cause serious depression of the central nervous system (CNS), with effects such as drowsiness, dizziness, loss of reflexes, narcosis. May produce functional disorders or morphological changes, by repeated or prolonged exposure by inhalation of a quantity less than or equal to 0.25 mg/l, 6 h/day. Ingestion can cause health problems, including abdominal pain with burning, nausea and vomiting. The introduction of even small quantities of liquid into the respiratory system in case of ingestion or vomiting can cause bronchopneumonia and pulmonary edema. It should be considered with suspicion due to possible teratogenic effects which can be toxic on the development of the fetus. It has a toxic action on the central and peripheral nervous system with encephalopathies and polyneuritis.

#### Interactive effects

#### toluene

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

#### ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	Not classified (no significant component)

#### CALCIUM CARBONATE

LD50 (Dermal):	> 2000 mg/kg Rat - OCSE 402
LD50 (Oral):	> 2000 mg/kg Rat - OCSE 425
LC50 (Inhalation mists/powders):	> 3 mg/l/4h Rat - OCSE 403

#### trimethoxyvinylsilane; trimethoxy(vinyl)silane

LD50 (Dermal):	> 3460 mg/kg Coniglio OECD 402
LD50 (Oral):	> 7000 mg/kg Ratto OECD 401
LC50 (Inhalation vapours):	16,8 mg/l/4h Ratto - OECD 403

#### CALCIUM CARBONATE PCC

LD50 (Dermal):	> 2000 mg/kg rat
LD50 (Oral):	> 2000 mg/kg rat
LC50 (Inhalation mists/powders):	> 3 mg/l rat

#### (3-aminopropyl) trimethoxysilane

LD50 (Dermal):	> 10000 mg/kg Rabbit
LD50 (Oral):	> 2000 mg/kg Rat

#### Carbon black

LD50 (Oral):	> 8000 mg/kg rat
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#### Bis(2,2,6,6-tetramethyl-4-piperidine)sebacate

LD50 (Dermal):	> 3000 mg/kg Rat
LD50 (Oral):	3700 mg/kg Rat
LC50 (Inhalation mists/powders):	500 mg/l/4h rat

#### methanol

LD50 (Dermal):	17100 mg/kg rabbit
STA (Dermal):	300 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Oral):	1187 mg/kg rat
LC50 (Inhalation vapours):	437 mg/l/6h cat

#### toluene

LD50 (Dermal):	12124 mg/kg Rabbit
LD50 (Oral):	5580 mg/kg Rat
LC50 (Inhalation vapours):	28,1 mg/l/4h Rat

#### trimethoxyvinylsilane; trimethoxy(vinyl)silane

Based on the available data, no acute toxic effects are expected after a single oral exposure. Minimal toxic effects are expected in case of single dermal exposure. Moderate toxic effects are expected in case of brief inhalation exposure.

#### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

## SPU03 - POLYGREY

## SECTION 11. Toxicological information ... / &gt;&gt;

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

trimethoxyvinylsilane; trimethoxy(vinyl)silane

According to Annex VI of Regulation (EC) no. 1272/2008, vinyltrimethoxysilane (VTMS) is classified as a category 1B skin sensitizing substance based on data from in vivo tests with laboratory animals. Furthermore, no allergic reactions have been reported following professional exposures. Mixtures with VTMS (up to 5% active substance) in polymers (polydimethylsiloxane and silane-terminated polyethers) of different viscosities up to the lower limit of 60 mPas were analyzed in the "Local Lymph node assay" (OECD 429). None of the mixtures had sensitizing potential. Taking into account the entire composition, this result, based on expert judgment, can be used for the classification and labeling of mixtures containing polymers.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

trimethoxyvinylsilane; trimethoxy(vinyl)silane

In Chinese hamster ovary (CHO) cells: negative (non-mutogenic) - OECD 476

Ames test (Genetic toxicology: Salmonella typhimurium, reversion assay): negative (non-mutogenic) - OECD 471

Chromosome aberration: positive - OECD 473

(3-aminopropyl) trimethoxysilane

Negative. OECD 471 method (bacterial cells - in vitro).

Negative. OECD method 476 (mammalian cells - in vitro).

Negative. OECD method 473 (mammalian cells - in vitro).

Negative. OECD 474 method (mouse - in vivo).

toluene

No significant effects are known.

- Negative (with and without metabolic activation)

Test system: mutation assay (in vitro) / mouse lymphoma cells; Method: OECD 476; Source: ECHA.

- Negative (with and without metabolic activation)

Test system: mutation assay (in vitro) / bacterial cells; Method: OECD 471; Source: ECHA.

- Negative

Test system: chromosome aberration assay (in vivo); Species: Rat Application method: Intraperitoneal; Cell type: bone marrow cells; Source: ECHA.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

toluene

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

toluene

CMR EFFECTS (carcinogenic, mutagenic, toxic for reproduction): Terat: suspected of harming the fetus if inhaled.

NOAEL (parents, general toxicity): 2261 mg/m<sup>3</sup>

NOAEL (parents, fertility): 7537 mg/m<sup>3</sup>

NOAEL (descendants): 2261 mg/m<sup>3</sup>

Species: Rat, male/female

Application method: Inhalation

Dosage levels: 0 - 2261 - 7537 mg/m<sup>3</sup>

Substance to be tested: vapour

Treatment frequency: 6 hours/day 7 days/week

NOAEL (parents, general toxicity): 1875 mg/m<sup>3</sup>

NOAEL (parents, fertility): 7500 mg/m<sup>3</sup>

NOAEL (descendants): 1875 mg/m<sup>3</sup>

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### SECTION 11. Toxicological information ... / >>

Test type: Two-generation study  
Species: Rat, male/female  
Application method: Inhalation  
Dosage levels: 0 - 375 - 1875 - 7500 mg/m<sup>3</sup>  
Substance to be tested: vapour  
Treatment frequency: 6 hours/day 7 days/week  
Method: OECD Test Guideline 416

#### Adverse effects on development of the offspring

(3-aminopropyl) trimethoxysilane  
NOAEL (developmental): 100 mg/kg. EPA OTS 798.4900  
NOAEL (maternal): 100 mg/kg. EPA OTS 798.4900

toluene  
NOAEL (teratogenicity): 4500 mg/m<sup>3</sup>  
NOAEL (maternal): 2250 mg/m<sup>3</sup>  
NOAEL (developmental toxicity): 2250 mg/m<sup>3</sup>  
Species: Rat, female  
Application method: Inhalation  
Dosage levels: 0 - 4500 mg/m<sup>3</sup>  
Treatment frequency: 6 hours/day 7 days/week  
Substance to be tested: vapour  
In animal studies, toxicity to the fetus was detected.

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

toluene  
Route of exposure: inhalation  
target organs: Central nervous system  
The vapors may have a narcotic effect.  
Source: ECHA.

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

toluene  
TOXICITY AFTER REPEATED TAKING (subacute, subchronic, chronic): May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. It has a toxic effect on the central and peripheral nervous system with polyneuritis and encephalopathy.  
SUBACUTE ORAL TOXICITY  
Parameter : NOAEL(C) ( TOLUENE ; CAS No. : 108-88-3 ); Route of exposure: Oral - Effective dose: = 625 mg/kg bw/day  
SUBACUTE INHALATION TOXICITY  
Parameter : NOAEC ( TOLUENE ; CAS No. : 108-88-3 ); Route of exposure: Inhalation - Species: Rat - Effective dose: 1131 mg/m<sup>3</sup>  
Test result(s): Central nervous system.

#### Target organs

(3-aminopropyl) trimethoxysilane  
NOAEL: 200 mg/kg  
LOAEL: 600 mg/kg  
Target organ: liver (rat). OECD 408.  
LOAEC: 0.147 mg/l  
Target organ: respiratory tract (rat).

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

(3-aminopropyl) trimethoxysilane  
Hydrolysis Product / Impurity: Methanol (CAS 67-56-1) is absorbed well and rapidly through all routes of exposure and is toxic regardless of the type of dose taken. Methanol can cause mucosal irritation, nausea, vomiting, headache, dizziness and visual disturbances, as well as blindness (irreversible damage to the optic nerve), acidosis, muscle cramps and coma. Delays in the appearance of these effects may occur following exposure.

## SPU03 - POLYGREY

### SECTION 11. Toxicological information ... / >>

toluene

ASPIRATION: May cause serious injury (chemical pneumonitis) to the lungs after ingestion and entry into the airways.

#### 11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

### SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

#### 12.1. Toxicity

(3-aminopropyl) trimethoxysilane

LC50 - for Fish

> 934 mg/l/96h Danio rerio

EC50 - for Crustacea

331 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

> 1000 mg/l/72h Desmodesmus subspicatus

Chronic NOEC for Algae / Aquatic Plants

1,3 mg/l Desmodesmus subspicatus

trimethoxyvinylsilane; trimethoxy(vinyl)silane

LC50 - for Fish

191 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea

169 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

210 mg/l/72h Selenastrum capricornutum

EC10 for Algae / Aquatic Plants

32 mg/l/7d Selenastrum capricornutum

Chronic NOEC for Crustacea

28 mg/l Daphnia magna

Chronic NOEC for Algae / Aquatic Plants

25 mg/l Selenastrum capricornutum

CALCIUM CARBONATE PCC

EC50 - for Algae / Aquatic Plants

> 14 mg/l/72h

toluene

EC50 - for Algae / Aquatic Plants

12500 ppm

methanol

EC50 - for Algae / Aquatic Plants

22 mg/l/72h

Bis(2,2,6,6-tetramethyl-4-piperidine)sebacate

LC50 - for Fish

4,4 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea

8,58 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants

0,705 mg/l/72h Pseudokirchneriella subcapitata

Chronic NOEC for Crustacea

4 mg/l Daphnia magna

Carbon black

LC50 - for Fish

> 1000 mg/l/96h Metodo: OECD n. 203

EC50 - for Crustacea

> 5600 mg/l/48h Metodo: OECD n. 202

EC50 - for Algae / Aquatic Plants

> 10000 mg/l/72h Scenedesmus subspicatus

Chronic NOEC for Algae / Aquatic Plants

> 10000 mg/l Scenedesmus subspicatus - Metodo: OECD 201

#### 12.2. Persistence and degradability

(3-aminopropyl) trimethoxysilane

Hydrolysis:

Half-period 8.5 h: pH 7, 24.7°C (OECD 111)

(3-aminopropyl) trimethoxysilane

NOT rapidly degradable

67% /28 d - OECD 301A

trimethoxyvinylsilane; trimethoxy(vinyl)silane

Solubility in water

9400 mg/l a 20°C (hydrolytic decomposition)

NOT rapidly degradable

51% / 28 d - OECD 301F

CALCIUM CARBONATE PCC

Solubility in water

8 mg/l @ 20°C

## SPU03 - POLYGREY

### SECTION 12. Ecological information ... / >>

toluene	
Solubility in water	100 - 1000 mg/l
Rapidly degradable	
methanol	
Solubility in water	1000 g/l 20 °C
Rapidly degradable	
CALCIUM CARBONATE	
Solubility in water	0,1 - 100 mg/l
Bis(2,2,6,6-tetramethyl-4-piperidine)sebacate	
Solubility in water	< 1 mg/l @ 20°C
NOT rapidly degradable	

#### 12.3. Bioaccumulative potential

trimethoxyvinylsilane; trimethoxy(vinyl)silane  
It is not subject to bioaccumulation; hydrolyzes.

(3-aminopropyl) trimethoxysilane  
Partition coefficient: n-octanol/water 0,2 20°C

trimethoxyvinylsilane; trimethoxy(vinyl)silane  
Partition coefficient: n-octanol/water 1,1

toluene  
Partition coefficient: n-octanol/water 2,73  
BCF 90

methanol  
Partition coefficient: n-octanol/water -0,77  
BCF 0,2

Bis(2,2,6,6-tetramethyl-4-piperidine)sebacate  
Partition coefficient: n-octanol/water 0,35 Log Kow 20-25°C, pH=7

#### 12.4. Mobility in soil

Information not available

#### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

#### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

#### 12.7. Other adverse effects

Information not available

### SECTION 13. Disposal considerations

#### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.  
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.  
CONTAMINATED PACKAGING  
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.



## SPU03 - POLYGREY

## SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

## 14.1. UN number or ID number

not applicable

## 14.2. UN proper shipping name

not applicable

## 14.3. Transport hazard class(es)

not applicable

## 14.4. Packing group

not applicable

## 14.5. Environmental hazards

not applicable

## 14.6. Special precautions for user

not applicable

## 14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

## SECTION 15. Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product	
Point	40
Contained substance	
Point	75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors  
not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

## SPU03 - POLYGREY

### SECTION 15. Regulatory information ... / >>

toluene  
Restriction  
Point 48 toluene - CAS n. 108-88-3  
REACH Reg.: 01-2119471310-51-XXXX

#### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances  
trimethoxyvinylsilane; trimethoxy(vinyl)silane  
Bis(2,2,6,6-tetramethyl-4-piperidine)sebacate  
methanol  
toluene

This safety data sheet contains one or more Exposure Scenarios in an integrated form. Contents have been included in sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

### SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Flam. Liq. 2</b>	Flammable liquid, category 2
<b>Flam. Liq. 3</b>	Flammable liquid, category 3
<b>Repr. 2</b>	Reproductive toxicity, category 2
<b>Acute Tox. 3</b>	Acute toxicity, category 3
<b>STOT SE 1</b>	Specific target organ toxicity - single exposure, category 1
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Asp. Tox. 1</b>	Aspiration hazard, category 1
<b>STOT RE 2</b>	Specific target organ toxicity - repeated exposure, category 2
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>Skin Sens. 1B</b>	Skin sensitization, category 1B
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H225</b>	Highly flammable liquid and vapour.
<b>H226</b>	Flammable liquid and vapour.
<b>H361d</b>	Suspected of damaging the unborn child.
<b>H361f</b>	Suspected of damaging fertility.
<b>H301</b>	Toxic if swallowed.
<b>H311</b>	Toxic in contact with skin.
<b>H331</b>	Toxic if inhaled.
<b>H370</b>	Causes damage to organs.
<b>H332</b>	Harmful if inhaled.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
<b>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H400</b>	Very toxic to aquatic life.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>EUH210</b>	Safety data sheet available on request.

Use descriptor system:

<b>ERC</b> 8b	Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
<b>ERC</b> 8e	Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)
<b>PC</b> 1	Adhesives, sealants
<b>PROC</b> 10	Roller application or brushing
<b>PROC</b> 11	Non industrial spraying
<b>PROC</b> 19	Manual activities involving hand contact

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008

## SPU03 - POLYGREY

### SECTION 16. Other information ... / >>

- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (UE) 2023/707

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

## SPU03 - POLYGREY

### SECTION 16. Other information ... / >>

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

02 / 11.