



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 as amended by Regulation (EU) No. 2020/878, and Regulation (EC) No. 1272/2008 Including amendments

WEST & SENIOR LTD

Revision date 05-02-2026

Revision Number 1

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

### 1.1. Product identifier

**Product Name** PY REED GREEN RAL6013 PIGMENT

**Product Code(s)** WS20761A

**Safety data sheet number** 30656

**Pure substance/mixture** Mixture

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

**Recommended use** Polyester pigment for composites. For industrial use only.

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

#### **Importer**

WSEU LIMITED  
The Penthouse Floor  
5 Lapps Quay  
Cork  
Ireland  
T12 RW7D

#### **Supplier**

West & Senior Ltd  
Milltown Street  
Radcliffe  
Manchester  
M26 1WE  
UK

For further information, please contact

**E-mail address** info@westsenior.co.uk

**Non-Emergency Telephone Number** + 44 01617247131

### 1.4. Emergency telephone number

**Emergency Telephone** +44 0161 724 7131 Only available 8am to 4pm, Monday to Friday (UK Time Zone)

<b>Emergency Telephone - §45 - (EC)1272/2008</b>	
<b>Europe</b>	<b>112</b>
<b>Austria</b>	24hr Emergency number +43 1 406 43 43
<b>Belgium</b>	070 245 245
<b>Denmark</b>	+45 8212 1212
<b>Finland</b>	0800 147 111 (the call is free of charge) 09 471 977 (normal price)
<b>France</b>	ORFILA number: + 33 (0)1 45 42 59 59
<b>Ireland</b>	7 days a week 8am-10pm - 01 809 2166
<b>Lithuania</b>	Apsinuodijimų kontrolės ir informacijos biuro tel. Nr. +370 (85) 2362052
<b>Netherlands</b>	NVIC: +31 (0)88 755 8000: Only for the purpose of informing medical personnel in case of acute intoxications' or in Dutch: 'Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen.'
<b>Norway</b>	22 59 13 00
<b>Portugal</b>	Portugal CIAV phone number: +351 800 250 250
<b>Spain</b>	National Emergency Telephone Number of Spanish Poison Centre: + 34 91 562 04 20 The information will be provided in Spanish (available 24/7): health personnel & general public

(poisoning cases).

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### **Classification according to Regulation (EC) No. 1272/2008 [CLP]**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

### 2.2. Label elements

No label elements required.

#### **Hazard statements**

EUH210 - Safety data sheet available on request.

### 2.3. Other hazards

**Other hazards** No information available.

**PBT or vPvB properties** The mixture does not contain any substances meeting the PBT or vPvB criteria according to Regulation (EC) No 1907/2006, Annex XIII.

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Chemical name	Weight-%	REACH registration number	EC No. (Index No.)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
TITANIUM DIOXIDE 13463-67-7	10-30%	01-2119489379-17-0000	236-675-5	No data available	-	-	-	-
BARIUM SULPHATE 7727-43-7	10-30%	01-2119491274-35-0001	231-784-4 (056-002-00-7)	No data available	-	-	-	-
CARBON BLACK 1333-86-4	1-5%	01-2119384822-32-0000	215-609-9	No data available	-	-	-	-
C.I. PIGMENT GREEN 7 1328-53-6	<1%	01-2119459333-39-0000	215-524-7	No data available	-	-	-	-

**Full text of H- and EUH-phrases: see section 16**

**Acute Toxicity Estimate**

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
TITANIUM DIOXIDE 13463-67-7	10000	No data available	5.0951	No data available	No data available
BARIUM SULPHATE 7727-43-7	307000	No data available	No data available	No data available	No data available
CARBON BLACK 1333-86-4	10000	2002	0.0046	No data available	No data available
C.I. PIGMENT GREEN 7 1328-53-6	5000	No data available	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).

#### Nanoforms

#### CARBON BLACK (1333-86-4)

Name of (set of) nanoform(s)	Particle characteristics	Value	Method
solid: nanoform, surface treatment - Oxidized. Shape - Spheroidal. Crystallinity - amorphous, not crystalline. Specific Surface Area - 55-600 m <sup>2</sup> /g	Particle size distribution - d10	6-30 nm	No information available
solid: nanoform, surface treatment - Oxidized. Shape - Spheroidal. Crystallinity - amorphous, not crystalline. Specific Surface Area - 55-600 m <sup>2</sup> /g	Particle size distribution - d50	10-53 nm	No information available
solid: nanoform, surface treatment - Oxidized. Shape - Spheroidal. Crystallinity - amorphous, not crystalline. Specific Surface Area - 55-600 m <sup>2</sup> /g	Particle size distribution - d90	23-144 nm	No information available

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
<b>Ingestion</b>	Rinse mouth.

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

<b>Symptoms</b>	No information available.
<b>Effects of Exposure</b>	No information available.

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

**Note to physicians** Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

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

**Specific hazards arising from the chemical** No information available.

### **5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **SECTION 6: Accidental release measures**

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

**Personal precautions** Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### **6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

**Advice on safe handling** Ensure adequate ventilation.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

**Storage class (TRGS 510)** Storage class 10.

**7.3. Specific end use(s)**

**Risk Management Methods (RMM)** No information available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure Limits**

Chemical name	Austria	Belgium	Bulgaria	Croatia
TITANIUM DIOXIDE 13463-67-7	TWA-TMW: 5 mg/m <sup>3</sup> ; alveolar dust, respirable fraction STEL-KZGW: 10 mg/m <sup>3</sup> (2 X 60 min); alveolar dust, respirable fraction	TWA: 10 mg/m <sup>3</sup> ;	TWA: 10.0 mg/m <sup>3</sup> ; respirable dust	TWA-GVI: 10 mg/m <sup>3</sup> ; total dust, inhalable particles TWA-GVI: 4 mg/m <sup>3</sup> ; respirable dust
BARIUM SULPHATE 7727-43-7	-	TWA: 5 mg/m <sup>3</sup> ;	TWA: 10.0 mg/m <sup>3</sup> ;	TWA-GVI: 10 mg/m <sup>3</sup> ; total dust, inhalable particles TWA-GVI: 4 mg/m <sup>3</sup> ; respirable dust
CARBON BLACK 1333-86-4	-	TWA: 3 mg/m <sup>3</sup> ;	-	TWA-GVI: 3.5 mg/m <sup>3</sup> ; STEL-KGVI: 7 mg/m <sup>3</sup> ;
C.I. PIGMENT GREEN 7 1328-53-6	TWA-TMW: 1 mg/m <sup>3</sup> ; inhalable fraction TWA-TMW: 0.1 mg/m <sup>3</sup> ; respirable fraction, smoke STEL-KZGW: 4 mg/m <sup>3</sup> (4 X 15 min); inhalable fraction STEL-KZGW: 0.4 mg/m <sup>3</sup> (4 X 15 min); respirable fraction, smoke	-	-	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia
TITANIUM DIOXIDE 13463-67-7	-	-	TWA: 6 mg/m <sup>3</sup> ; STEL: 12 mg/m <sup>3</sup> ;	TWA: 5 mg/m <sup>3</sup> ;
CARBON BLACK 1333-86-4	-	TWA: 2.0 mg/m <sup>3</sup> ; dust	TWA: 3.5 mg/m <sup>3</sup> ; STEL: 7 mg/m <sup>3</sup> ;	TWA: 3 mg/m <sup>3</sup> ;
Chemical name	Finland	France	Germany TRGS	Germany DFG
TITANIUM DIOXIDE 13463-67-7	-	TWA-VME: 10 mg/m <sup>3</sup> ;	TWA-AGW; 1.25 mg/m <sup>3</sup> (exposure factor 2); respirable fraction TWA-AGW; 10 mg/m <sup>3</sup> (exposure factor 2); inhalable	TWA-MAK: 0.3 mg/m <sup>3</sup> ; II(8); respirable fraction Peak: 2.4 mg/m <sup>3</sup> ; respirable fraction

			fraction	
BARIUM SULPHATE 7727-43-7	-	-	TWA-AGW; 1.25 mg/m <sup>3</sup> (exposure factor 2); respirable fraction TWA-AGW; 10 mg/m <sup>3</sup> (exposure factor 2); inhalable fraction Peak: 2.4 mg/m <sup>3</sup> ; respirable fraction	TWA-MAK: 0.3 mg/m <sup>3</sup> ; II(8);respirable fraction TWA-MAK: 4 mg/m <sup>3</sup> ; ;inhalable fraction Peak: 2.4 mg/m <sup>3</sup> ; respirable fraction
CARBON BLACK 1333-86-4	TWA: 3.5 mg/m <sup>3</sup> ; STEL: 7 mg/m <sup>3</sup> ;	TWA-VME: 3.5 mg/m <sup>3</sup> ;	-	-
C.I. PIGMENT GREEN 7 1328-53-6	TWA: 0.02 mg/m <sup>3</sup> ; respirable dust	-	-	-
Chemical name	Greece	Hungary	Italy MDLPS	Italy AIDII
TITANIUM DIOXIDE 13463-67-7	TWA: 10 mg/m <sup>3</sup> ; inhalable fraction TWA: 5 mg/m <sup>3</sup> ; respirable fraction	-	-	TWA: 10 mg/m <sup>3</sup> ;
BARIUM SULPHATE 7727-43-7	-	-	-	TWA: 5 mg/m <sup>3</sup> ; inhalable fraction
CARBON BLACK 1333-86-4	TWA: 3.5 mg/m <sup>3</sup> ; STEL: 7 mg/m <sup>3</sup> ;	TWA-AK: 3 mg/m <sup>3</sup> ; inhalable concentration	-	TWA: 3 mg/m <sup>3</sup> ;
C.I. PIGMENT GREEN 7 1328-53-6	-	TWA-AK: 0.1 mg/m <sup>3</sup> ; STEL-CK: 0.2 mg/m <sup>3</sup> ;	-	TWA: 1 mg/m <sup>3</sup> ; dust and mist
Chemical name	Ireland	Latvia	Lithuania	Luxembourg
TITANIUM DIOXIDE 13463-67-7	TWA: 10 mg/m <sup>3</sup> ; total inhalable dust TWA: 4 mg/m <sup>3</sup> ; respirable dust STEL: 30 mg/m <sup>3</sup> (calculated); res pirable dust STEL: 12 mg/m <sup>3</sup> (calculated);	TWA: 10 mg/m <sup>3</sup> ;	TWA-IPRD: 5 mg/m <sup>3</sup> ;	-
BARIUM SULPHATE 7727-43-7	TWA: 5 mg/m <sup>3</sup> ; respirable dust STEL: 15 mg/m <sup>3</sup> (calculated); res pirable dust	-	-	-
CARBON BLACK 1333-86-4	TWA: 3 mg/m <sup>3</sup> ; inhalable fraction STEL: 15 mg/m <sup>3</sup> (calculated); inh alable fraction	-	-	-
Chemical name	Malta	Netherlands	Norway	Poland
TITANIUM DIOXIDE 13463-67-7	-	-	TWA: 5 mg/m <sup>3</sup> ; STEL: 10 mg/m <sup>3</sup> (value calculated);	TWA-NDS: 10 mg/m <sup>3</sup> ; inhalable fraction STEL-NDSCh: 30 mg/m <sup>3</sup> ;
BARIUM SULPHATE 7727-43-7	-	-	TWA: 0.5 mg/m <sup>3</sup> ; STEL: 1.5 mg/m <sup>3</sup> (except Barium sulfate;value calculated);	-
CARBON BLACK 1333-86-4	-	-	TWA: 3.5 mg/m <sup>3</sup> ; STEL: 7 mg/m <sup>3</sup> (value calculated);	TWA-NDS: 4 mg/m <sup>3</sup> ; inhalable fraction
Chemical name	Portugal	Romania	Slovakia	Slovenia
TITANIUM DIOXIDE	TWA (VLE-MP): 10	TWA: 10 mg/m <sup>3</sup> ;	TWA: 5 mg/m <sup>3</sup> ;	-

13463-67-7	mg/m <sup>3</sup> ;	STEL: 15 mg/m <sup>3</sup> ;		
BARIUM SULPHATE 7727-43-7	TWA (VLE-MP): 5 mg/m <sup>3</sup> ; inhalable fraction	-	TWA: 4 mg/m <sup>3</sup> ; inhalable fraction TWA: 1.5 mg/m <sup>3</sup> ; respirable fraction	-
CARBON BLACK 1333-86-4	TWA (VLE-MP): 3 mg/m <sup>3</sup> ; inhalable fraction	-	TWA: 2 mg/m <sup>3</sup> ; respirable fraction, 5% or less fibrogenic component TWA: 10 mg/m <sup>3</sup> ; respirable fraction, greater than 5% fibrogenic component TWA: 10 mg/m <sup>3</sup> ; total aerosol Ceiling: 10 mg/m <sup>3</sup> ; solid aerosol	-
Chemical name	Spain	Sweden	Switzerland	United Kingdom
TITANIUM DIOXIDE 13463-67-7	TWA-(VLA-ED): 10 mg/m <sup>3</sup> ;	TLV-NGV: 5 mg/m <sup>3</sup> ; total dust	TWA-MAK: 3 mg/m <sup>3</sup> ; respirable dust TWA-MAK: 10 mg/m <sup>3</sup> ; inhalable dust	TWA: 10 mg/m <sup>3</sup> ; total inhalable TWA: 4 mg/m <sup>3</sup> ; respirable STEL: 30 mg/m <sup>3</sup> ; total inhalable STEL: 12 mg/m <sup>3</sup> ; respirable
BARIUM SULPHATE 7727-43-7	TWA-(VLA-ED): 10 mg/m <sup>3</sup> ;	-	TWA-MAK: 3 mg/m <sup>3</sup> ; respirable dust TWA-MAK: 10 mg/m <sup>3</sup> ; inhalable dust	TWA: 10 mg/m <sup>3</sup> ; inhalable dust TWA: 4 mg/m <sup>3</sup> ; respirable dust STEL: 30 mg/m <sup>3</sup> ; inhalable dust STEL: 12 mg/m <sup>3</sup> ; respirable dust
CARBON BLACK 1333-86-4	TWA-(VLA-ED): 3.5 mg/m <sup>3</sup> ;	TLV-NGV: 3 mg/m <sup>3</sup> ; inhalable fraction	-	TWA: 3.5 mg/m <sup>3</sup> ; STEL: 7 mg/m <sup>3</sup> ;
C.I. PIGMENT GREEN 7 1328-53-6	TWA-(VLA-ED): 0.01 mg/m <sup>3</sup> ; respirable fraction	-	-	TWA: 1 mg/m <sup>3</sup> ; dust and mist STEL: 2 mg/m <sup>3</sup> ; dust and mist

**Note** See section 16 for terms and abbreviations

#### Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
CARBON BLACK 1333-86-4	-	(Note 1)	-	-	-

**Note 1:** Details about BEL values can be found in Annex 2 of the Austrian Ordinance on Health Monitoring in the Workplace.

#### Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
C.I. PIGMENT YELLOW 42 51274-00-1	-	-	10 mg/m <sup>3</sup> [5] [6]
BARIUM SULPHATE 7727-43-7	-	-	10 mg/m <sup>3</sup> [4] [6] 10 mg/m <sup>3</sup> [5] [6]

Chemical name	Oral	Dermal	Inhalation
CARBON BLACK 1333-86-4	-	-	1 mg/m <sup>3</sup> [4] [6]
C.I. PIGMENT GREEN 7 1328-53-6	-	4.67 mg/kg bw/day [4] [6]	16.4 mg/m <sup>3</sup> [4] [6] 1.25 mg/m <sup>3</sup> [5] [6]

**Notes**

[4] Systemic health effects.  
 [5] Local health effects.  
 [6] Long term.

**Derived No Effect Level (DNEL) - General Public**

Chemical name	Oral	Dermal	Inhalation
BARIUM SULPHATE 7727-43-7	13000 mg/kg bw/day [4] [6]	-	10 mg/m <sup>3</sup> [4] [6]
CARBON BLACK 1333-86-4	-	-	0.06 mg/m <sup>3</sup> [4] [6]
C.I. PIGMENT GREEN 7 1328-53-6	1.67 mg/kg bw/day [4] [6]	-	2.9 mg/m <sup>3</sup> [4] [6] 1.25 mg/m <sup>3</sup> [5] [6]

**Notes**

[4] Systemic health effects.  
 [5] Local health effects.  
 [6] Long term.

**Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
TITANIUM DIOXIDE 13463-67-7	0.127 mg/l	0.61 mg/l	1 mg/l	0.61 mg/l	-
BARIUM SULPHATE 7727-43-7	115 µg/L	-	-	-	-
CARBON BLACK 1333-86-4	50 mg/L	-	-	-	-
C.I. PIGMENT GREEN 7 1328-53-6	0.1 mg/L	1 mg/L	10 µg/L	0.1 mg/L	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
TITANIUM DIOXIDE 13463-67-7	1000 mg/kg sediment dw	100 mg/kg sediment dw	100 mg/L	100 mg/kg soil dw	-
BARIUM SULPHATE 7727-43-7	600.4 mg/kg sediment dw	-	62.2 mg/L	207.7 mg/kg soil dw	-
C.I. PIGMENT GREEN 7 1328-53-6	-	-	1000 mg/L	-	-

**8.2. Exposure controls****Engineering controls**

No information available.

**Personal protective equipment**

<b>Eye/face protection</b>	Appropriate eye/face protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.
<b>Hand protection</b>	Wear chemically resistant gloves (tested in accordance to EN 374-1 Type C or greater to be assessed by local risk assessment and physical activity) in combination with employee training. Glove material : Neoprene , Nitriles. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
<b>Skin and body protection</b>	Appropriate skin and body protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.
<b>Respiratory protection</b>	Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>Thermal hazards</b>	No information available.

<b>Environmental exposure controls</b>	No information available.
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**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Coloured paste
<b>Physical state</b>	Liquid
<b>Color</b>	green
<b>Odor</b>	Aromatic
<b>Odor threshold</b>	No information available

<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
<b>Melting point / freezing point</b>	No data available	None known
<b>Boiling point or initial boiling point and boiling range</b>	No data available	None known
<b>Flammability</b>	No data available	None known
<b>Lower and upper explosion limit/flammability limit</b>	No data available	None known
<b>Lower explosion limit</b>	No data available	
<b>Upper explosion limit</b>	No data available	
<b>Flash point</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature SADT (°C)</b>	No data available	None known
<b>pH</b>	No data available	None known
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Solubility</b>	Organic solvents	None known
<b>Water solubility</b>	Insoluble in water	None known
<b>Partition coefficient n-octanol/water (log value)</b>	No data available	None known
<b>Vapor pressure</b>	No data available	None known
<b>Density and/or relative density</b>	No data available	None known
<b>Bulk density</b>	No data available	
<b>Liquid Density</b>	No data available	

<b>Relative vapor density</b>	No data available	None known
<b>Particle characteristics</b>		
<b>Particle Size</b>	No information available	

**Particle Size Distribution**

No information available

**9.2. Other information****9.2.1. Information with regard to physical hazard classes**

No information available

**9.2.2. Other safety characteristics**

No information available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

**Reactivity** No information available.

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**

Sensitivity to mechanical impact None.  
Sensitivity to static discharge None.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

**10.4. Conditions to avoid**

**Conditions to avoid** None known based on information supplied.

**10.5. Incompatible materials**

**Incompatible materials** None known based on information supplied.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** None known based on information supplied.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Acute toxicity** Based on available data, the classification criteria are not met.

**Numerical measures of toxicity**

The following ATE values have been calculated for the mixture

ATEmix (oral)	12,332.50 mg/kg
ATEmix (dermal)	99,999.00 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-vapor)	99,999.00 mg/L
ATEmix (inhalation-dust/mist)	99,999.00 mg/L

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
TITANIUM DIOXIDE	> 2000 mg/kg ( Rat )	-	> 5.09 mg/L ( Rat ) 4 h
BARIUM SULPHATE	= 307000 mg/kg ( Rat )	-	-
CARBON BLACK	> 10000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 4.6 mg/m <sup>3</sup> ( Rat ) 4 h
C.I. PIGMENT GREEN 7	> 5000 mg/kg ( Rat )	-	-

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

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Carbon black is not suitable to be tested directly in bacterial (Ames test) and other in vitro systems because of its insolubility. However, when organic solvent extracts of carbon black have been tested, results showed no mutagenic effects. Organic solvent extracts of carbon black can contain traces of polycyclic aromatic hydrocarbons (PAHs). A study to examine the bioavailability of these PAHs showed that they are very tightly bound to carbon black and are not bioavailable (Borm, 2005). In an experimental investigation, mutational changes in the hprt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black (Driscoll, 1997). This observation is considered to be rat-specific and a consequence of "lung overload," which leads to chronic inflammation and release of reactive oxygen species. This is considered to be a secondary genotoxic effect and, thus, carbon black itself would not be considered to be mutagenic.

**Carcinogenicity** In 2006 IARC re-affirmed its 1995 finding that there is "inadequate evidence" from human health studies to assess whether carbon black causes cancer in humans. IARC concluded that there is "sufficient evidence" in experimental animal studies for the carcinogenicity of carbon black. IARC's overall evaluation is that carbon black is "possibly carcinogenic to humans (Group 2B)". This conclusion was based on IARC's guidelines, which generally require such a classification if one species exhibits carcinogenicity in two or more animal studies (IARC, 2010). Solvent extracts of carbon black were used in one study of rats in which skin tumors were found after dermal application and several studies of mice in which

sarcomas were found following subcutaneous injection. IARC concluded that there was "sufficient evidence" that carbon black extracts can cause cancer in animals (Group 2B).

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disruption for human health** Based on available data, the classification criteria are not met.

### 11.2.2. Other information

**Other adverse effects** No information available.

## **SECTION 12: Ecological information**

**12.1. Toxicity** Based on available data, the classification criteria are not met.

**Aquatic toxicity**

### **Component Information**

Chemical name	Fish	Crustacea	Algae/aquatic plants	Toxicity to microorganisms
C.I. PIGMENT GREEN 7	LC50: =752.4mg/L (96h, Lepomis macrochirus)	-	-	-

**12.2. Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

Chemical name	Partition coefficient	Bioconcentration factor (BCF)	Trophic magnification factor (TMF)
C.I. PIGMENT GREEN 7	-0.4	74	-

**12.4. Mobility in soil** No information available.

**12.5. Results of PBT and vPvB assessment** This product does not contain any substances that are assessed to be a PBT or a vPvB.

Chemical name	PBT and vPvB assessment
TITANIUM DIOXIDE	Not PBT/vPvB
BARIUM SULPHATE	Not PBT/vPvB
CARBON BLACK	Not PBT/vPvB
C.I. PIGMENT GREEN 7	Not PBT/vPvB

**12.6. Endocrine disrupting properties** Based on available data, the classification criteria are not met.

**12.7. Other adverse effects** No information available.

**PMT or vPvM properties** Based on available data, the classification criteria are not met.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## SECTION 14: Transport information

### IATA

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user Special Provisions	None

### IMDG

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available

### RID

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user Special Provisions	None

### ADR

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated

<b>14.3 Transport hazard class(es)</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Environmental hazards</b>	Not applicable
<b>14.6 Special precautions for user</b>	
<b>Special Provisions</b>	None

ADN

<b>14.1</b>	<b>UN number or ID number</b>	Not regulated
<b>14.2</b>	<b>UN proper shipping name</b>	Not regulated
<b>14.3</b>	<b>Transport hazard class(es)</b>	Not regulated
<b>14.4</b>	<b>Packing group</b>	Not regulated
<b>14.5</b>	<b>Environmental hazard</b>	Not applicable
<b>14.6</b>	<b>Special precautions for user</b>	
<b>Special Provisions</b>		None

## **SECTION 15: Regulatory information**

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

## National regulations

## France

## France Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
CARBON BLACK 1333-86-4	RG 16,RG 16bis

## Chemical Prohibition Ordinance (ChemVerbotsV)

This product is subject to requirements and restrictions regarding handling and delivery.

Chemical name	ANNEX I
SILICA (CRYSTALLINE) 14808-60-7	1.2

**TRGS 905** Not applicable

## Switzerland

<b>Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018</b>	Not applicable
<b>Storage of Hazardous Material</b>	SC Non-hazardous material
<b>WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20</b>	Not applicable
<b>Major Accidents Ordinance SR 814.012</b>	Not applicable

## European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
TITANIUM DIOXIDE 13463-67-7	75	-
CARBON BLACK 1333-86-4	75	-

C.I. PIGMENT GREEN 7 1328-53-6	75	-
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**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) Regulation (EU) 2024/590**

Not applicable.

**EU - Plant Protection Products (1107/2009/EC)**

Chemical name	EU - Plant Protection Products (1107/2009/EC)
CARBON BLACK 1333-86-4	Plant protection agent

**Explosives Precursors Marketing and Use (2019/1148)**

Not applicable.

**International Inventories**

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status
TCSI	Contact supplier for inventory compliance status

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

**15.2. Chemical safety assessment**

Chemical Safety Report	No information available
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**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet**

List may include phrases which are not applicable to this product

ACGIH	American Conference of Governmental Industrial Hygienists
AIDII	Italian Association of Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

	(Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CLP	Classification, Labelling and Packaging Regulation; Regulation (EC) No 1272/2008
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DFG	German Research Foundation
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
ECHA	European Chemicals Agency
EC Number	European Community number
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EWC	European Waste Codes
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organization
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organization for Standardization
KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MAK	Maximum Concentration at the Workplace
MAL	Measuring Technical Hygienic Air Needs
MARPOL	International Convention for the Prevention of Pollution from Ships
MDLPS	Ministry of Labor and Social Policy
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic
PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
REACH	Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SDS	Safety Data Sheet
SL	Surface Limit

STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
SVHC	Substance of very high concern
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TRGS	Technical Rule for Hazardous Substances
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
VPvB	Very Persistent and Very Bioaccumulative
VPvM	Very Persistent and Very Mobile
As	Allergenic substance
C	Carcinogen
DS	Dermal Sensitizer
Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitizer
RS	Respiratory Sensitizer
S	Sensitizer
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption
Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

**Classification procedure**

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Chronic aquatic toxicity	Calculation method
Acute aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

**Key literature references and sources for data used to compile the SDS**

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
 European Chemicals Agency (ECHA) (ECHA\_API)

U.S. Environmental Protection Agency  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan National Institute of Technology and Evaluation (NITE)  
Australian Industrial Chemicals Introduction Scheme (AICIS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications  
International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program  
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set  
United Nations World Health Organization (WHO)

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**Disclaimer**

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**End of Safety Data Sheet**