

West & Senior Limited

Milltown Street • Radcliffe • Manchester • M26 1WE • United Kingdom Tel +44 (0) 161 724 7131 • Fax +44 (0) 161 724 9519 http://www.westsenior.co.uk • info@westsenior.co.uk

SAFETY DATA SHEET

PY SIGNAL BLUE RAL5005 PIGMENT

According to Regulation (EC) No 1907/2006, Annex II, as amended by Regulation (EU) No 453/2010

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product name	PY SIGNAL BLUE RAL5005 PIGMENT	
Product number	WS20687A	
1.2. Relevant identified uses	of the substance or mixture and uses advised against	
Identified uses	COLOURING OF POLYESTER RESINS & GELCOATS.	
1.3. Details of the supplier of the safety data sheet		
Supplier	WEST AND SENIOR LIMITED. MILLTOWN STREET RADCLIFFE MANCHESTER. M26 1WE. TEL + 44 01617247131 FAX + 44 01617249519 info@westsenior.co.uk	
1.4. Emergency telephone nu	umber	
Emergency telephone	24 HOUR EMERGENCY TELEPHONE NUMBER : + 44 (0) 7930 595916	
SECTION 2: Hazards identification		
2.1. Classification of the subs	stance or mixture	
Classification (EC 1272/2008		
Physical hazards	Not Classified	
Health hazards	Not Classified	
Environmental hazards	Not Classified	
Environmental 2.2. Label elements	The product is not expected to be hazardous to the environment.	
Hazard statements	NC Not Classified	
Supplemental label information	EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.	
2.3. Other hazards This product does not contain any substances classified as PBT or vPvB.		

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

BARIUM SULPHATE		10-30%
CAS number: 7727-43-7	EC number: 231-784-4	REACH registration number: 01- 2119491274-35-0001
Classification Not Classified		
TITANIUM DIOXIDE		10-30%
CAS number: 13463-67-7	EC number: 236-675-5	REACH registration number: 01- 2119489379-17-0000
Classification Not Classified		
The full text for all hazard sta	atements is displayed in Section 16.	
Composition comments		le (CAS 13463-67-7) The Annex VI classification of ture according to its Note 10. No other disclosure

required under the latest EC Directives

SECTION 4: First aid measures

media

4.1. Description of first aid measures		
General information	No specific recommendations. If in doubt, get medical attention promptly.	
Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.	
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if any discomfort continues.	
Skin contact	Remove affected person from source of contamination. Get medical attention if irritation persists after washing.	
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.	
4.2. Most important symptoms and effects, both acute and delayed		
General information	Get medical attention if any discomfort continues.	
Inhalation	No specific symptoms known.	
Ingestion	No specific symptoms known.	
Skin contact	No specific symptoms known.	
Eye contact	No specific symptoms known.	
4.3. Indication of any immediate medical attention and special treatment needed		
Notes for the doctor	No specific recommendations.	
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.	

Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from	om the substance or mixture	
Specific hazards	No unusual fire or explosion hazards noted.	
Hazardous combustion products	Heating may generate flammable vapours. Vapours may form explosive mixtures with air.	
5.3. Advice for firefighters		
Protective actions during firefighting	No specific firefighting precautions known.	
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.	
SECTION 6: Accidental release	e measures	
6.1. Personal precautions, pro	tective equipment and emergency procedures	
Personal precautions	Avoid heat, flames and other sources of ignition. Provide adequate ventilation.	
6.2. Environmental precaution	S	
Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses.	
6.3. Methods and material for	containment and cleaning up	
Methods for cleaning up	Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Avoid the spillage or runoff entering drains, sewers or watercourses.	
6.4. Reference to other section	15	
Reference to other sections	For waste disposal, see section 13.	
SECTION 7: Handling and sto	rage	
7.1. Precautions for safe handling		
Usage precautions	Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist. Take precautionary measures against static discharges. Contaminated rags and cloths must be put in fireproof containers for disposal.	
	vapours, spray or mist. Take precautionary measures against static discharges. Contaminated	
	vapours, spray or mist. Take precautionary measures against static discharges. Contaminated rags and cloths must be put in fireproof containers for disposal.	
7.2. Conditions for safe storag	vapours, spray or mist. Take precautionary measures against static discharges. Contaminated rags and cloths must be put in fireproof containers for disposal. e, including any incompatibilities Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep	
7.2. Conditions for safe storag Storage precautions	vapours, spray or mist. Take precautionary measures against static discharges. Contaminated rags and cloths must be put in fireproof containers for disposal. e, including any incompatibilities Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep	
7.2. Conditions for safe storagStorage precautions7.3. Specific end use(s)	 vapours, spray or mist. Take precautionary measures against static discharges. Contaminated rags and cloths must be put in fireproof containers for disposal. e, including any incompatibilities Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep separate from food, feedstuffs, fertilisers and other sensitive material. The identified uses for this product are detailed in Section 1.2. 	
 7.2. Conditions for safe storag Storage precautions 7.3. Specific end use(s) Specific end use(s) 	 vapours, spray or mist. Take precautionary measures against static discharges. Contaminated rags and cloths must be put in fireproof containers for disposal. e, including any incompatibilities Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep separate from food, feedstuffs, fertilisers and other sensitive material. The identified uses for this product are detailed in Section 1.2. 	
 7.2. Conditions for safe storag Storage precautions 7.3. Specific end use(s) Specific end use(s) SECTION 8: Exposure control 8.1. Control parameters Occupational exposure limits BARIUM SULPHATE Long-term exposure limit (8-horizonta) 	 vapours, spray or mist. Take precautionary measures against static discharges. Contaminated rags and cloths must be put in fireproof containers for disposal. e, including any incompatibilities Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep separate from food, feedstuffs, fertilisers and other sensitive material. The identified uses for this product are detailed in Section 1.2. 	

EH40 WEL, Time Weighted Average (TWA):, Inhalable dust. 10 mg/m3, 8 h EH40 WEL, Time Weighted Average (TWA):, Respirable dust. 4 mg/m3, 8 h

CARBON BLACK

Argentina 3.5, TWA Australia 3.0, TWA, inhalable Belgium 3.6, TWA Brazil 3.5, TWA Canada (Ontario) 3.0 TWA, inhalable China 4.0, TWA 8.0, TWA, STEL (15 min) Colombia 3.0, TWA, inhalable Czech Republic 2.0, TWA Egypt 3.5, TWA Finland 3.5, TWA; 7.0, STEL France - INRS 3.5, TWA/VME inhalable Germany – BeKGS527 0.5, TWA, respirable; 2.0, TWA, inhalable (DNEL values) Hong Kong 3.5, TWA Indonesia 3.5, TWA/NABs Ireland 3.5, TWA; 7.0, STEL Italy 3.5, TWA, inhalable Japan - MHLW 3.0 Japan – SOH 4.0, TWA; 1.0, TWA, respirable Korea 3.5, TWA Malaysia 3.5, TWA Mexico 3.5, TWA Russia 4.0, TWA Spain 3.5, TWA (VLA-ED) Sweden 3.0, TWA United Kingdom 3.5, TWA, inhalable; 7.0, STEL, inhalable EU REACH DNEL 2.0, TWA, inhalable; 0.5, TWA respirable United States 3.5, TWA, OSHA-PEL 3.0, TWA, ACGIH-TLV®, inhalable 3.5, TWA, NIOSH-REL

C.I. PIGMENT VIOLET 23 (C.I.151319)

EH40 WEL, Time Weighted Average (TWA):, Inhalable dust. 10 mg/m3, 8 h EH40 WEL, Time Weighted Average (TWA):, Respirable dust. 4 mg/m3, 8 h

silica (quartz)

Long-term exposure limit (8-hour TWA): WEL 2.4 mg/m³ respirable dust Long-term exposure limit (8-hour TWA): WEL 6 mg/m³ inhalable dust WEL = Workplace Exposure Limit.

Ingredient comments No exposure limits known for ingredient(s).

BARIUM SULPHATE (CAS: 7727-43-7)

DNEL	Workers - Inhalation; Long term systemic effects: 10 mg/m ³ Workers - Inhalation; Long term local effects: 10 mg/m ³ Consumer - Inhalation; Long term systemic effects: 10 mg/m ³ Consumer - Oral; Long term systemic effects: 13000 mg/kg
PNEC	Fresh water; 115 µg/l STP; 62.2 mg/l Sediment (Freshwater); 600.4 mg/kg Soil; 207.7 mg/kg

TITANIUM DIOXIDE (CAS: 13463-67-7)

DNEL	Workers - Inhalation; Long term local effects: 10 mg/m³ Professional - Inhalation; Long term local effects: 10 mg/m³ Consumer - Oral; Long term systemic effects: 700 mg/kg/day	
PNEC	marine water; 0.0184 mg/l Fresh water; 0.184 mg/l Intermittent release; 0.193 mg/l STP; 100 mg/l Sediment, marine water; 100 mg/kg Sediment, Fresh water; 1000 mg/kg Soil; 100 mg/kg	
	CARBON BLACK (CAS: 1333-86-4)	
DNEL	Workers - Inhalation; Long term : 0.5 mg/m³, respirable fraction Workers - Inhalation; Long term : 2 mg/m³, inhalable fraction	
	Trimethylolpropane (CAS: 77-99-6)	
DNEL	Workers - Inhalation; Long term systemic effects: 3.3 mg/m³ Workers - Dermal; Long term systemic effects: 0.94 mg/kg Consumer - Inhalation; Long term systemic effects: 0.58 mg/m³ Consumer - Dermal; Long term systemic effects: 0.34 mg/kg Consumer - Oral; Long term systemic effects: 0.34 mg/kg	
8.2. Exposure controls		
Protective equipment		
Appropriate engineering controls	No specific ventilation requirements.	
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield.	
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.	
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.	
Hygiene measures	Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin.	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid. or Coloured paste.
Colour	Various colours.
Odour	Aromatic.
Odour threshold	No information available.

рН	No information available.
Melting point	No information available.
Initial boiling point and range	No information available.
Flash point	>65°C
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	No information available.
Bulk density	No information available.
Solubility(ies)	Organic solvents. Insoluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	No information available.
Explosive under the influence of a flame	No
Oxidising properties	Not available.
Comments	No information available.
9.2. Other information	
Other information	No information required.
SECTION 10: Stability and rea	ctivity
10.1. Reactivity	
Reactivity	There are no known reactivity hazards associated with this product.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures.
10.3. Possibility of hazardous i	reactions
Possibility of hazardous reactions	No potentially hazardous reactions known.
10.4. Conditions to avoid	
Conditions to avoid	Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid

No information available.

10.6. Hazardous decomposition products

Hazardous decompositionThermal decomposition may lead to formation of a multiplicity of compounds some of which
may be hazardous. With incomplete combustion smoke and hazardous fumes and gases ,
including carbon monoxide, may be formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects			
Toxicological	effects	Not class	sified.
Acute toxicity Notes (oral L		Not relevant.	
Acute toxicity Notes (derma		Not relev	vant.
Acute toxicity Notes (inhala		Not relevant.	
Acute and ch hazards	rronic health	No specific health hazards known.	
Toxicological	information on in	gredients.	
			CARBON BLACK
	Acute toxicity - or	ral	
	Notes (oral LD ₅₀)		LD₅₀ >8000 mg/kg, Oral, Rat
	Germ cell mutage	enicity	
	Summary		In vivo mutagenicity in rats occurs by mechanisms secondary to a threshold effect and is a consequence of "lung overload," which leads to chronic inflammation and the release of genotoxic oxygen species. This mechanism is considered to be a secondary genotoxic effect and, thus, carbon black itself would not be considered to be mutagenic.
	Genotoxicity - in	vitro	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).
	Genotoxicity - in	vivo	In an experimental investigation, mutational changes in the hprt ene 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		

Carcinogenicity

IARC carcinogen	icity IARC Group 2B Possibly carcinogenic to humans.
SECTION 12: Ecological inform	mation
Ecotoxicity	Not regarded as dangerous for the environment.
12.1. Toxicity	
Toxicity	Not considered toxic to fish.
12.2. Persistence and degrada	ability
Persistence and degradability	There are no data on the degradability of this product.
12.3. Bioaccumulative potentia	<u>al</u>
Partition coefficient	Not available.
12.4. Mobility in soil	
Mobility	No information available.
12.5. Results of PBT and vPvE	3 assessment
Results of PBT and vPvB assessment	No information available.
12.6. Other adverse effects	
Other adverse effects	None known.
SECTION 13: Disposal consid	erations
13.1. Waste treatment method	
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Empty containers should be taken to an approved waste handling site for recycling or disposal.
SECTION 14: Transport inform	nation
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
14.1. UN number	
Not applicable.	
14.2. UN proper shipping nam	<u>e</u>
Not applicable.	
14.3. Transport hazard class(e	<u>əs)</u>
Not applicable.	
14.4. Packing group	
Not applicable.	
14.5. Environmental hazards	
Environmentally hazardous substance/marine pollutant No.	
14.6. Special precautions for u Not applicable.	Iser

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not relevant. Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended).	
EU legislation	Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.	
Guidance	A guide to local exhaust ventilation (LEV) HSG258 (as ammended) Workplace Exposure Limits EH40.	

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information		
Revision date	21/09/2021	
Revision	28	
Supersedes date	23/09/2020	

The information contained within this document is presented in good faith and is believed to be correct. West and Senior Limited makes no representation as to the accuracy and/or completeness of this information. This information is issued on the condition that the user will determine the safety and suitability of products for their purposes prior to use. All technical details and values presented are deemed typical and do not constitute a delivery specification.