

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 YELLOW RAL1003 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 YELLOW RAL1003 PIGMENT

Product number WS40024A

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 number

Emergency telephone 24 HOUR EMERGENCY TELEPHONE NUMBER: + 44 (0) 7930 595916

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Not Classified

Environmental The product is not expected to be hazardous to the environment.

2.2. Label elements

Hazard statements NC Not Classified

Supplemental label EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not

information breathe spray or mist.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

PY SIGNAL YELLOW RAL1003 PIGMENT

TITANIUM DIOXIDE 10-30%

CAS number: 13463-67-7 EC number: 236-675-5 REACH registration number: 01-

2119489379-17-0000

Classification
Not Classified

BARIUM SULPHATE 5-10%

CAS number: 7727-43-7 EC number: 231-784-4 REACH registration number: 01-

2119491274-35-0001

Classification
Not Classified

The full text for all hazard statements is displayed in Section 16.

Composition comments This mixture contains ≥ 1% Titanium Dioxide (CAS 13463-67-7) The Annex VI classification of

Titanium Dioxide does not apply to this mixture according to its Note 10. No other disclosure

required under the latest EC Directives

SECTION 4: First aid measures

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. None.

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

media

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

PY SIGNAL YELLOW RAL1003 PIGMENT

5.2. Special hazards arising from 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

clothina.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid heat, flames and other sources of ignition. Provide adequate ventilation.

6.2. Environmental precautions

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 sections

Reference to other sections For waste disposal, see section 13.

SECTION 7: Handling and storage

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.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in

the original container. Keep separate from food, feedstuffs, fertilisers and other sensitive

material.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

TITANIUM DIOXIDE

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

BARIUM SULPHATE

Long-term exposure limit (8-hour TWA): 4 mg/m³ respirable dust Long-term exposure limit (8-hour TWA): 10 mg/m³ inhalable dust

CARBON BLACK

PY SIGNAL YELLOW RAL1003 PIGMENT

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

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

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

BARIUM SULPHATE (CAS: 7727-43-7)

DNEL Workers - Inhalation; Long term systemic effects: 10 mg/m³

Workers - Inhalation; Long term local effects: 10 mg/m³
Consumer - Inhalation; Long term systemic effects: 10 mg/m³
Consumer - Oral; Long term systemic effects: 13000 mg/kg

PY SIGNAL YELLOW RAL1003 PIGMENT

PNEC Fresh water; 115 μg/l

STP; 62.2 mg/l

Sediment (Freshwater); 600.4 mg/kg

Soil; 207.7 mg/kg

C.I. PIGMENT YELLOW 83 (CAS: 5567-15-7)

DNEL Workers - Dermal; Long term systemic effects: 45 mg/kg/day

Workers - Inhalation; Long term local effects: 3 mg/m³

General population - Dermal; Long term systemic effects: 28 mg/kg/day General population - Oral; Long term systemic effects: 28 mg/kg/day

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

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

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.

PY SIGNAL YELLOW RAL1003 PIGMENT

pН No information available. No information available. Melting point No information available. Initial boiling point and range

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

Vapour pressure

No information available.

No information available.

Other flammability 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. No information available. Viscosity No information available. **Explosive properties**

Explosive under the influence

of a flame

No

No information available. Oxidising properties

9.2. Other information

Other information No information required.

SECTION 10: Stability and reactivity

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 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

PY SIGNAL YELLOW RAL1003 PIGMENT

Materials to avoid Strong oxidising agents. Peroxides.

10.6. Hazardous decomposition products

Hazardous decomposition products

This product contains a diaryl pigment. This product should not be used if the processing temperature exceeds 200°C because of possible thermal decomposition, which can, with prolonged exposure or further increased temperature, form e.g. traces of aromatic amines. 3,3'-Dichloro-benzidine.

Thermal 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 classified.

Acute toxicity - oral

Notes (oral LD₅₀) Not relevant.

Acute toxicity - dermal

Notes (dermal LD₅₀) Not relevant.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not relevant.

Acute and chronic health

hazards

No specific health hazards known.

Toxicological information on ingredients.

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

5,000.0

Species

Rat

ATE oral (mg/kg)

5,000.0

CARBON BLACK

BARIUM SULPHATE

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ >8000 mg/kg, Oral, Rat

Germ cell mutagenicity

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.

PY SIGNAL YELLOW RAL1003 PIGMENT

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

IARC carcinogenicity IARC Group 2B Possibly carcinogenic to humans.

SECTION 12: Ecological information

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Toxicity Not considered toxic to fish.

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Partition coefficient Not available.

12.4. Mobility in soil

Mobility No information available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

i N

No information available.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methodsDispose 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 information

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.

PY SIGNAL YELLOW RAL1003 PIGMENT

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

Environmentally hazardous substance/marine pollutant

Nο

14.6. Special precautions for user

Not applicable.

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 (EC) 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 22/10/2021

Revision 13

Supersedes date 13/06/2019

SDS number 40056

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.