

Revision date 28-05-2025

Revision Number 1

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

### 1.1. Product identifier

**Product Name** PY FASCOL LEMON PIGMENT

**Product Code(s)** WS40005A

**Safety data sheet number** 40033

**Unique Formula Identifier (UFI)** 30VJ-G3FP-F00E-EEAH

**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

|                                         |                   |
|-----------------------------------------|-------------------|
| <b>Importer</b>                         | <b>Supplier</b>   |
| WSEU LIMITED                            | West & Senior Ltd |
| The Penthouse Floor                     | Milltown Street   |
| 5 Lapps Quay                            | Radcliffe         |
| Cork                                    | Manchester        |
| Ireland                                 | M26 1WE           |
| T12 RW7D                                | 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)

| Emergency Telephone - §45 - (EC)1272/2008 |                                                                                                                                                                                                                        |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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                                                                                                                                                                           |

|       |                                                                                                                                                                                                    |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Spain | 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

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

### Hazard statements

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

EUH210 - Safety data sheet available on request.

### 2.3. Other hazards

**Other hazards** No information available.

**PBT & vPvB** None known.

**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          | CAS No.    | 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) |
|------------------------|------------|----------|---------------------------|--------------------------|-----------------------------------------------------------------|------------------------------------|----------|----------------------|
| BARIUM SULPHATE        | 7727-43-7  | 5-10%    | 01-21194912 74-35-0001    | 231-784-4 (056-002-00-7) | No data available                                               | -                                  | -        | -                    |
| C.I. PIGMENT YELLOW 83 | 5567-15-7  | 1-5%     | 01-21194754 84-30-0000    | 226-939-8                | No data available                                               | -                                  | -        | -                    |
| TITANIUM DIOXIDE       | 13463-67-7 | <1%      | 01-21194893 79-17-0000    | 236-675-5                | No data available                                               | -                                  | -        | -                    |

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

### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| 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 |
|----------------------------------------|-----------------|-------------------|---------------------------------------------|-----------------------------------------|--------------------------------------|
| BARIUM SULPHATE<br>7727-43-7           | 307000          | No data available | No data available                           | No data available                       | No data available                    |
| C.I. PIGMENT YELLOW<br>83<br>5567-15-7 | 15000           | 3000              | No data available                           | No data available                       | No data available                    |
| TITANIUM DIOXIDE<br>13463-67-7         | 10000           | No data available | 5.0951                                      | No data available                       | No data available                    |

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

#### Nanoforms

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

| Name of (set of) nanoform(s) | Particle characteristics         | Value     | Method                   |
|------------------------------|----------------------------------|-----------|--------------------------|
| Pigment Yellow 83            | Particle size distribution - d10 | 10-51 nm  | No information available |
| Pigment Yellow 83            | Particle size distribution - d50 | 30-82 nm  | No information available |
| Pigment Yellow 83            | Particle size distribution - d90 | 30-140 nm | No information available |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

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

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

|                     |                           |
|---------------------|---------------------------|
| Symptoms            | No information available. |
| Effects of Exposure | 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      Take up mechanically, placing in appropriate containers for disposal.

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                       | European Union                                              | Austria                                                                                                                                                                 | Belgium                                                                                                                                                                               | Bulgaria                                                                                               | Croatia                                                                                                                    |
|-------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| BARIUM SULPHATE<br>7727-43-7        | -                                                           | -                                                                                                                                                                       | TWA: 5 mg/m <sup>3</sup> ;                                                                                                                                                            | TWA: 10.0 mg/m <sup>3</sup> ;                                                                          | TWA-GVI:<br>10 mg/m <sup>3</sup> ; total dust,<br>inhalable particles<br>TWA-GVI: 4 mg/m <sup>3</sup> ;<br>respirable dust |
| TITANIUM DIOXIDE<br>13463-67-7      | -                                                           | TWA-TMW:<br>5 mg/m <sup>3</sup> ; alveolar<br>dust, respirable<br>fraction<br>STEL-KZGW: 10<br>mg/m <sup>3</sup> (2 X 60 min);<br>alveolar dust,<br>respirable fraction | TWA: 10 mg/m <sup>3</sup> ;                                                                                                                                                           | TWA: 10.0 mg/m <sup>3</sup> ;<br>respirable dust                                                       | TWA-GVI:<br>10 mg/m <sup>3</sup> ; total dust,<br>inhalable particles<br>TWA-GVI: 4 mg/m <sup>3</sup> ;<br>respirable dust |
| SILICA (CRYSTALLINE)<br>14808-60-7  | TWA: 0.1 mg/m <sup>3</sup> ;                                | TWA-TMW:<br>0.05 mg/m <sup>3</sup> ; alveolar<br>dust, respirable<br>fraction                                                                                           | TWA: 0.1 mg/m <sup>3</sup> ;<br>alveolar dust<br>TWA: 0.05 mg/m <sup>3</sup> ;                                                                                                        | TWA: 0.1 mg/m <sup>3</sup> ;<br>respirable fraction                                                    | TWA-GVI:<br>0.1 mg/m <sup>3</sup> ;<br>respirable dust;<br>respirable particle                                             |
| Chemical name                       | Cyprus                                                      | Czech Republic                                                                                                                                                          | Denmark                                                                                                                                                                               | Estonia                                                                                                | Finland                                                                                                                    |
| TITANIUM DIOXIDE<br>13463-67-7      | -                                                           | -                                                                                                                                                                       | TWA: 6 mg/m <sup>3</sup> ;<br>STEL: 12 mg/m <sup>3</sup> ;                                                                                                                            | TWA: 5 mg/m <sup>3</sup> ;                                                                             | -                                                                                                                          |
| SILICA (CRYSTALLINE)<br>14808-60-7  | TWA: 0.1 mg/m <sup>3</sup> ;<br>respirable dust<br>fraction | TWA: 0.1 mg/m <sup>3</sup> ;<br>dust                                                                                                                                    | TWA: 0.3 mg/m <sup>3</sup> ;<br>total<br>TWA: 0.1 mg/m <sup>3</sup> ;<br>respirable<br>STEL: 0.6 mg/m <sup>3</sup> ;<br>total<br>STEL: 0.2 mg/m <sup>3</sup> ;<br>respirable          | TWA: 0.1 mg/m <sup>3</sup> ;<br>inhalable dust                                                         | TWA: 0.05 mg/m <sup>3</sup> ;<br>respirable dust                                                                           |
| Chemical name                       | France                                                      | Germany TRGS                                                                                                                                                            | Germany DFG                                                                                                                                                                           | Greece                                                                                                 | Hungary                                                                                                                    |
| BARIUM SULPHATE<br>7727-43-7        | -                                                           | TWA-AGW;<br>1.25 mg/m <sup>3</sup> (exposu<br>re factor 2);<br>respirable fraction<br>TWA-AGW;<br>10 mg/m <sup>3</sup> (exposure<br>factor 2); inhalable<br>fraction    | TWA-MAK: 0.3<br>mg/m <sup>3</sup> ; II(8);respira<br>ble fraction<br>TWA-MAK: 4<br>mg/m <sup>3</sup> ; ;inhalable<br>fraction<br>Peak: 2.4 mg/m <sup>3</sup> ;<br>respirable fraction | -                                                                                                      | -                                                                                                                          |
| C.I. PIGMENT YELLOW 83<br>5567-15-7 | -                                                           | -                                                                                                                                                                       | TWA: 0.3 mg/m <sup>3</sup><br>Peak: 2.4 mg/m <sup>3</sup>                                                                                                                             | -                                                                                                      | -                                                                                                                          |
| TITANIUM DIOXIDE<br>13463-67-7      | TWA-VME: 10<br>mg/m <sup>3</sup> ;                          | TWA-AGW;<br>1.25 mg/m <sup>3</sup> (exposu<br>re factor 2);<br>respirable fraction<br>TWA-AGW;<br>10 mg/m <sup>3</sup> (exposure<br>factor 2); inhalable<br>fraction    | TWA-MAK: 0.3<br>mg/m <sup>3</sup> ; II(8);respira<br>ble fraction<br>Peak: 2.4 mg/m <sup>3</sup> ;<br>respirable fraction                                                             | TWA: 10 mg/m <sup>3</sup> ;<br>inhalable fraction<br>TWA: 5 mg/m <sup>3</sup> ;<br>respirable fraction | -                                                                                                                          |
| SILICA (CRYSTALLINE)<br>14808-60-7  | TWA-VME: 0.1<br>mg/m <sup>3</sup> ; alveolar<br>fraction    | -                                                                                                                                                                       | -                                                                                                                                                                                     | TWA: 0.1 mg/m <sup>3</sup> ;<br>respirable dust<br>fraction                                            | TWA-AK: 0.1 mg/m <sup>3</sup> ;<br>respirable fraction                                                                     |
| Chemical name                       | Ireland                                                     | Italy MDLPS                                                                                                                                                             | Italy AIDII                                                                                                                                                                           | Latvia                                                                                                 | Lithuania                                                                                                                  |
| BARIUM SULPHATE<br>7727-43-7        | TWA: 5 mg/m <sup>3</sup> ;<br>respirable dust<br>STEL: 15   | -                                                                                                                                                                       | TWA: 5 mg/m <sup>3</sup> ;<br>inhalable fraction                                                                                                                                      | -                                                                                                      | -                                                                                                                          |

|                                    |                                                                                                                                                                                                                       |                                                     |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                   |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|                                    | mg/m <sup>3</sup> (calculated);<br>respirable dust                                                                                                                                                                    |                                                     |                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                   |
| TITANIUM DIOXIDE<br>13463-67-7     | TWA: 10 mg/m <sup>3</sup> ;<br>total inhalable dust<br>TWA: 4 mg/m <sup>3</sup> ;<br>respirable dust<br>STEL: 30<br>mg/m <sup>3</sup> (calculated);<br>respirable dust<br>STEL: 12<br>mg/m <sup>3</sup> (calculated); | -                                                   | TWA: 10 mg/m <sup>3</sup> ;                           | TWA: 10 mg/m <sup>3</sup> ;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TWA-IPRD: 5<br>mg/m <sup>3</sup> ;                                                                |
| SILICA (CRYSTALLINE)<br>14808-60-7 | TWA: 0.1 mg/m <sup>3</sup> ;<br>respirable dust<br>STEL: 0.3 mg/m <sup>3</sup> ;                                                                                                                                      | TWA: 0.1 mg/m <sup>3</sup> ;<br>respirable fraction | TWA: 0.025 mg/m <sup>3</sup> ;<br>respirable fraction | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TWA-IPRD: 0.1<br>ppm; respirable<br>fraction                                                      |
| Trimethylolpropane<br>77-99-6      | -                                                                                                                                                                                                                     | -                                                   | -                                                     | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ceiling: 5 ppm                                                                                    |
| Chemical name                      | Luxembourg                                                                                                                                                                                                            | Malta                                               | Netherlands                                           | Norway                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Poland                                                                                            |
| BARIUM SULPHATE<br>7727-43-7       | -                                                                                                                                                                                                                     | -                                                   | -                                                     | TWA: 0.5 mg/m <sup>3</sup> ;<br>STEL: 1.5<br>mg/m <sup>3</sup> (except<br>Barium sulfate;value<br>calculated);                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                                                                                                 |
| TITANIUM DIOXIDE<br>13463-67-7     | -                                                                                                                                                                                                                     | -                                                   | -                                                     | TWA: 5 mg/m <sup>3</sup> ;<br>STEL: 10<br>mg/m <sup>3</sup> (value<br>calculated);                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TWA-NDS: 10<br>mg/m <sup>3</sup> ; inhalable<br>fraction<br>STEL-NDSCh: 30<br>mg/m <sup>3</sup> ; |
| SILICA (CRYSTALLINE)<br>14808-60-7 | -                                                                                                                                                                                                                     | -                                                   | TWA: 0.075 mg/m <sup>3</sup> ;<br>respirable fraction | TWA: 0.05 mg/m <sup>3</sup> ;<br>respirable dust<br>TWA: 0.3 mg/m <sup>3</sup> ;<br>total dust<br>STEL: 0.9<br>mg/m <sup>3</sup> (value<br>calculated;dust<br>containing<br>.alpha.-Quartz,<br>Cristobalite and/or<br>Tridymite is<br>evaluated by<br>summation formula.<br>At the same time,<br>the values for<br>Nuisance dust must<br>be observed); total<br>dust<br>STEL: 0.15<br>mg/m <sup>3</sup> (value<br>calculated;dust<br>containing<br>.alpha.-Quartz,<br>Cristobalite and/or<br>Tridymite is<br>evaluated by<br>summation formula.<br>At the same time,<br>the values for<br>Nuisance dust must<br>be observed);<br>respirable dust | TWA-NDS: 0.1<br>mg/m <sup>3</sup> ; respirable<br>fraction                                        |
| Chemical name                      | Portugal                                                                                                                                                                                                              | Romania                                             | Slovakia                                              | Slovenia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Spain                                                                                             |

| BARIUM SULPHATE<br>7727-43-7       | TWA (VLE-MP): 5 mg/m <sup>3</sup> ; inhalable fraction      | -                                                        | TWA: 4 mg/m <sup>3</sup> ; inhalable fraction<br>TWA: 1.5 mg/m <sup>3</sup> ; respirable fraction | -                                                                                                                                                                                       | TWA-(VLA-ED): 10 mg/m <sup>3</sup> ;                       |
|------------------------------------|-------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| TITANIUM DIOXIDE<br>13463-67-7     | TWA (VLE-MP): 10 mg/m <sup>3</sup> ;                        | TWA: 10 mg/m <sup>3</sup> ; STEL: 15 mg/m <sup>3</sup> ; | TWA: 5 mg/m <sup>3</sup> ;                                                                        | -                                                                                                                                                                                       | TWA-(VLA-ED): 10 mg/m <sup>3</sup> ;                       |
| SILICA (CRYSTALLINE)<br>14808-60-7 | TWA (VLE-MP): 0.025 mg/m <sup>3</sup> ; respirable fraction | TWA: 0.1 mg/m <sup>3</sup> ; dust, respirable fraction   | TWA: 0.1 mg/m <sup>3</sup> ; STEL: 0.5 mg/m <sup>3</sup> ;                                        | TWA: 0.05 mg/m <sup>3</sup> ; respirable fraction                                                                                                                                       | TWA-(VLA-ED): 0.05 mg/m <sup>3</sup> ; respirable fraction |
| Chemical name                      | Sweden                                                      |                                                          | Switzerland                                                                                       |                                                                                                                                                                                         | United Kingdom                                             |
| BARIUM SULPHATE<br>7727-43-7       | -                                                           |                                                          | TWA-MAK: 3 mg/m <sup>3</sup> ; respirable dust<br>TWA-MAK: 10 mg/m <sup>3</sup> ; inhalable dust  | TWA: 10 mg/m <sup>3</sup> ; inhalable dust<br>TWA: 4 mg/m <sup>3</sup> ; respirable dust<br>STEL: 30 mg/m <sup>3</sup> ; inhalable dust<br>STEL: 12 mg/m <sup>3</sup> ; respirable dust |                                                            |
| TITANIUM DIOXIDE<br>13463-67-7     | TLV-NGV: 5 mg/m <sup>3</sup> ; total dust                   |                                                          | TWA-MAK: 3 mg/m <sup>3</sup> ; respirable dust<br>TWA-MAK: 10 mg/m <sup>3</sup> ; inhalable dust  | TWA: 10 mg/m <sup>3</sup> ; total inhalable<br>TWA: 4 mg/m <sup>3</sup> ; respirable<br>STEL: 30 mg/m <sup>3</sup> ; total inhalable<br>STEL: 12 mg/m <sup>3</sup> ; respirable         |                                                            |
| SILICA (CRYSTALLINE)<br>14808-60-7 | TLV-NGV: 0.1 mg/m <sup>3</sup> ; respirable fraction        |                                                          | TWA-MAK: 0.15 mg/m <sup>3</sup> ; respirable dust                                                 | TWA: 0.1 mg/m <sup>3</sup> ; respirable fraction<br>STEL: 0.3 mg/m <sup>3</sup> ; respirable                                                                                            |                                                            |
| Trimethylolpropane<br>77-99-6      | NGV: 5 mg/m <sup>3</sup>                                    |                                                          | -                                                                                                 | -                                                                                                                                                                                       |                                                            |

**Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

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

| Chemical name                       | Oral | Dermal                    | Inhalation                                                   |
|-------------------------------------|------|---------------------------|--------------------------------------------------------------|
| BARIUM SULPHATE<br>7727-43-7        | -    | -                         | 10 mg/m <sup>3</sup> [4] [6]<br>10 mg/m <sup>3</sup> [5] [6] |
| C.I. PIGMENT YELLOW 83<br>5567-15-7 | -    | 45 mg/kg bw/day [4] [6]   | 3 mg/m <sup>3</sup> [5] [6]                                  |
| Trimethylolpropane<br>77-99-6       | -    | 0.94 mg/kg bw/day [4] [6] | 3.3 mg/m <sup>3</sup> [4] [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<br>7727-43-7        | 13000 mg/kg bw/day [4] [6] | -                       | 10 mg/m <sup>3</sup> [4] [6]   |
| C.I. PIGMENT YELLOW 83<br>5567-15-7 | 28 mg/kg bw/day [4] [6]    | 28 mg/kg bw/day [4] [6] | -                              |
| Trimethylolpropane<br>77-99-6       | 0.34 mg/kg bw/day [4] [6]  | -                       | 0.58 mg/m <sup>3</sup> [4] [6] |

**Notes**

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

**Predicted No Effect Concentration (PNEC)**

| Chemical name                  | Freshwater | Freshwater<br>(intermittent release) | Marine water | Marine water<br>(intermittent release) | Air |
|--------------------------------|------------|--------------------------------------|--------------|----------------------------------------|-----|
| BARIUM SULPHATE<br>7727-43-7   | 115 µg/L   | -                                    | -            | -                                      | -   |
| TITANIUM DIOXIDE<br>13463-67-7 | 0.127 mg/l | 0.61 mg/l                            | 1 mg/l       | 0.61 mg/l                              | -   |

| Chemical name                  | Freshwater<br>sediment     | Marine sediment          | Sewage treatment | Soil                | Food chain |
|--------------------------------|----------------------------|--------------------------|------------------|---------------------|------------|
| BARIUM SULPHATE<br>7727-43-7   | 600.4 mg/kg<br>sediment dw | -                        | 62.2 mg/L        | 207.7 mg/kg soil dw | -          |
| TITANIUM DIOXIDE<br>13463-67-7 | 1000 mg/kg<br>sediment dw  | 100 mg/kg sediment<br>dw | 100 mg/L         | 100 mg/kg soil dw   | -          |

**8.2. Exposure controls**

**Engineering controls** No information available.

**Personal protective equipment**

**Eye/face protection** 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.

**Hand protection** 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.

**Skin and body protection** 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.

**Respiratory protection** 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.

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

**Environmental exposure controls** No information available.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**



|                |                                    |
|----------------|------------------------------------|
| Appearance     | Coloured paste, or, Viscous liquid |
| Physical state | Liquid                             |
| Color          | yellow                             |
| Odor           | Aromatic                           |
| Odor threshold | No information available           |

| <u>Property</u>                                          | <u>Values</u>            | <u>Remarks • Method</u> |
|----------------------------------------------------------|--------------------------|-------------------------|
| Melting point / freezing point                           | No data available        | None known              |
| Boiling point or initial boiling point and boiling range | No data available        | None known              |
| Flammability                                             | No data available        | None known              |
| Lower and upper explosion limit/flammability limit       |                          | None known              |
| Lower explosion limit                                    | No data available        |                         |
| Upper explosion limit                                    | No data available        |                         |
| Flash point                                              | > 65 °C                  | None known              |
| Autoignition temperature                                 | No data available        | None known              |
| Decomposition temperature                                |                          | None known              |
| SADT (°C)                                                | No data available        | None known              |
| pH                                                       | No data available        | None known              |
| pH (as aqueous solution)                                 | No data available        | None known              |
| Kinematic viscosity                                      | No data available        | None known              |
| Dynamic viscosity                                        | No data available        | None known              |
| Solubility                                               | Organic solvents         | None known              |
| Water solubility                                         | No data available        | Insoluble in water      |
| Partition coefficient n-octanol/water (log value)        | No data available        | None known              |
| Vapor pressure                                           | No data available        | None known              |
| Density and/or relative density                          | No data available        | None known              |
| Bulk density                                             | No data available        |                         |
| Liquid Density                                           | No data available        |                         |
| Relative vapor density                                   | No data available        | None known              |
| Particle characteristics                                 |                          |                         |
| Particle Size                                            | 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** 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.

## **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

|                       |                                                                   |
|-----------------------|-------------------------------------------------------------------|
| <b>Symptoms</b>       | No information available.                                         |
| <b>Acute toxicity</b> | 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)                 | 99,999.00 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         |
|------------------------|------------------------|----------------------|-------------------------|
| BARIUM SULPHATE        | = 307000 mg/kg ( Rat ) | -                    | -                       |
| C.I. PIGMENT YELLOW 83 | > 15000 mg/kg ( Rat )  | > 3000 mg/kg ( Rat ) | -                       |
| TITANIUM DIOXIDE       | > 2000 mg/kg ( Rat )   | -                    | > 5.09 mg/L ( Rat ) 4 h |

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

|                                          |                                                                   |
|------------------------------------------|-------------------------------------------------------------------|
| <b>Skin corrosion/irritation</b>         | Based on available data, the classification criteria are not met. |
| <b>Serious eye damage/eye irritation</b> | Based on available data, the classification criteria are not met. |
| <b>Respiratory or skin sensitization</b> | Based on available data, the classification criteria are not met. |
| <b>Germ cell mutagenicity</b>            | Based on available data, the classification criteria are not met. |
| <b>Carcinogenicity</b>                   | Based on available data, the classification criteria are not met. |
| <b>Reproductive toxicity</b>             | Based on available data, the classification criteria are not met. |
| <b>STOT - single exposure</b>            | Based on available data, the classification criteria are not met. |
| <b>STOT - repeated exposure</b>          | 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 disrupting properties** 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

#### **Ecotoxicity**

| Chemical name          | Algae/aquatic plants | Fish                              | Toxicity to microorganisms | Crustacea |
|------------------------|----------------------|-----------------------------------|----------------------------|-----------|
| C.I. PIGMENT YELLOW 83 | -                    | LC50: >100mg/L (96h, Danio rerio) | -                          | -         |

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

#### **Bioaccumulation**

#### **Component Information**

| Chemical name          | Partition coefficient |
|------------------------|-----------------------|
| C.I. PIGMENT YELLOW 83 | 0.02                  |

### 12.4. Mobility in soil

**Mobility in soil** No information available.

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

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

| Chemical name          | PBT and vPvB assessment |
|------------------------|-------------------------|
| BARIUM SULPHATE        | Not PBT/vPvB            |
| C.I. PIGMENT YELLOW 83 | Not PBT/vPvB            |
| TITANIUM DIOXIDE       | Not PBT/vPvB            |

#### **12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

#### **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  |
| 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           |

**ADN**

|                                   |                |
|-----------------------------------|----------------|
| 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 hazard         | Not applicable |
| 14.6 Special precautions for user |                |
| Special Provisions                | None           |

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Chemical Prohibition Ordinance (ChemVerbotsV)** This product is subject to requirements and restrictions regarding handling and delivery

**TRGS 905** Not applicable

**Switzerland**

**Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) SR 814.018** Not applicable  
**Storage of Hazardous Material** SC Non-hazardous material  
**WPO (GSchV) SR 814.201; WPA (GSchG) SR 814.20** Not applicable  
**Major Accidents Ordinance SR 814.012** 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 |
|------------------------------------|-------------------------------------------|--------------------------------------------------------|
| C.I. PIGMENT YELLOW 83 - 5567-15-7 | Use restricted. See entry 75.             | -                                                      |
| TITANIUM DIOXIDE - 13463-67-7      | 75                                        | -                                                      |

**Persistent Organic Pollutants**

Not applicable

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

Not applicable.

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

Not applicable

#### International Inventories

|               |                                                  |
|---------------|--------------------------------------------------|
| TSCA          | Contact supplier for inventory compliance status |
| DSL/NDL       | 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/NDL       | - 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

### SECTION 16: Other information

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### **Legend**

SVHC: Substances of Very High Concern for Authorization:

#### **Legend Section 8: Exposure controls/personal protection**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | Sk*  | Skin designation                 |
| +       | Sensitizers                 |      |                                  |

| 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**

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)  
 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)  
 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)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

Revision date 28-05-2025

**Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)****Disclaimer**

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**End of Safety Data Sheet**