

## 45100 Ultramarine Violet, medium

|                |                                 |
|----------------|---------------------------------|
| Product name:  | Ultramarine Violet, medium      |
| Chemical name: | Sodium-aluminium-sulfo-silicate |
| Color index:   | C.I. Pigment violet 15 : 77007  |
| C.A.S. No.:    | 12769-96-9                      |
| EINECS No.:    | 2-358-110                       |

### Specification:

|                                           |                                                                           |
|-------------------------------------------|---------------------------------------------------------------------------|
| Color shade DE CIEL (max):                | 1.00 lightening 1:3 with TiO <sub>2</sub> in impact-resistant polystyrene |
| Coloring strength (compared to standard): | ± 5 %                                                                     |
| Oversize (45 µm):                         | max. 0.10 %                                                               |
| Volatile moiety (105°C):                  | max. 1.50 %                                                               |
| Free sulfur:                              | max. 0.05 %                                                               |
| Water soluble parts:                      | max. 1.00 %                                                               |

### Typical Data:

|                                    |      |
|------------------------------------|------|
| Color grade:                       | 51   |
| Density:                           | 2.35 |
| Bulk density (g/cm <sup>3</sup> ): | 0.75 |
| Oil adsorption:                    | 38.5 |
| Middle particle size (µm):         | 2.40 |

### Fastness/Resistance

|                              |                   |
|------------------------------|-------------------|
| Temperature resistance:      | > 260°C           |
| Light fastness (full color): | excellent (7 - 8) |
| Light fastness (lightening): | excellent (7 - 8) |
| Alkali resistance:           | excellent         |
| Acid resistance:             | weak              |

### Safety Information

|                                               |                                  |
|-----------------------------------------------|----------------------------------|
| Acute oral toxicity (LD <sub>50</sub> , rat): | > 10 g/kg                        |
| Skin irritation:                              | not irritant and not sensitizing |
| Eye irritation:                               | not irritant                     |
| Exposition limit:                             | 6 mg/m <sup>3</sup> (MAK Value)  |
| Ecology:                                      | not hazardous                    |

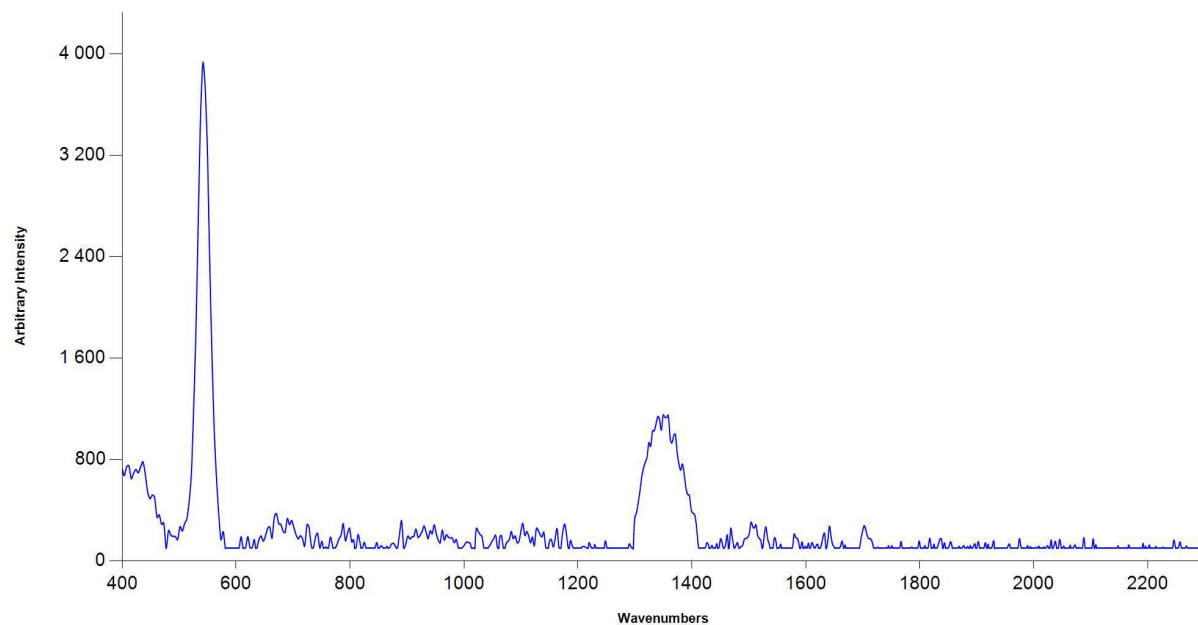
### Regulations

Ultramarine violet is a non toxic pigment. It is universally authorized as coloring agent for objects being in contact with food and for the manufacture of toys.

### Storage, Stability and Handling

|                                      |                                                                                                                                                  |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Transportation and storage:          | Do not store near acid substances.                                                                                                               |
| Non-compatible substances:           | Acids.                                                                                                                                           |
| Decomposition products:              | Hydrogen sulfide is released after contact with acids.                                                                                           |
| Special protective measures:         | None, however, avoid contact with excessive dust.                                                                                                |
| Special measures in case of release: | Clean-up immediately. Avoid spilling of large amounts of dust.<br>Dispose of spilled material in accordance with local and national regulations. |

Raman spectrum of 45100:  
(Source: MR PHSG, 2017)



— Sample Spectrum