

## TECHNICAL DATASHEET

# Ultramarine 461

### IDENTITY:

Chemical Sodium Alumino Sulphosilicate

C.A.S. Nos. (i) 57455-37-5; C.I. Pigment Blue 29 (9CI)

(ii) 101357-30-6; Silicic acid aluminium sodium salt, sulphurised

EINECS No. (Europe) 3099283

TSCA (USA)

AIECS (Australia) The C.A.S. Number is used

DSL (Canada)

MITI No. (Japan) 1-22

SEPA (China) FC020409 017

Colour Index No. Pigment Blue 29: 77007

### DESCRIPTION

Ultramarine 461 is a moderate tinting strength, very red shade Ultramarine blue. It is heat fast, lightfast, very easy to disperse and approved worldwide for use in sensitive applications such as food contact plastics and cosmetics.

While not as strong or bright as other grades in the R.S. Pigments range, 461 can offer a cost effective solution where only limited technical properties are required.

Ultramarine 461 is intended as a general purpose pigment with applications in paint, ink, soap, cosmetics and many other industries. Ultramarine 461 can be used in plastics.

### SPECIFICATION:

Property		Maximum	Minimum
Colour 1:4 reduction high impact polystyrene	DE	1.00	
	strength	105%	95%
Matter volatile at 105 <sup>o</sup> C		0.5%	
Water soluble matter		1.80%	
Sieve residue (45 µm)		0.10%	
Free sulphur		0.1%	

### TYPICAL DATA

Specific gravity: 2.35

Tap density (g/cm<sup>3</sup>): 0.85

Oil absorption (%): 33.0

Mean particle size (µm): 5.00

Cube for shipping (m<sup>3</sup>): 1.45

### FASTNESS PROPERTIES

Heat: Greater than 350<sup>o</sup>C

Light (xenon lamp and daylight):

Mass tone Excellent; 7 to 8 (BS1006 blue woolscale)

Reduced shade Excellent; 7 to 8 (BS1006 blue woolscale)

Acids: Poor

Alkalis: Good

### **HEALTH AND SAFETY**

Ultramarine is one of the safest pigments available to industry.

Acute oral toxicity (LD 50 rats) - greater than 10g/kg

Skin irritation - non irritant, non sensitizing

Eye irritation - none

Ecology - non hazardous

Consult Material Safety Datasheet before use

### **STORAGE, STABILITY AND HANDLING**

Shelf life - indefinite if stored under recommended conditions

Transport and storage - do not store near acids

Incompatible substances - acids

Hazardous decomposition products - hydrogen sulphide released by acid contact

Protective and special measures - none: avoid excessive dust

Action after spillage - clean quickly; avoids flushing large quantities. Dispose according to local regulations

### **REGULATIONS**

Conforms to the following regulations or codes of practice:

#### Food Contact Plastics

EC - C.E. Resolution AP (89)1

Approved under the French positive list (Circulaire 176 du 22.12.1959)

U.S.A. - CFR 21, Part 178.3297

#### Cosmetics

EC - Directive 76/768/EEC and amendments

U.S.A. - CFR 21, Part 73.2725

#### Toys

EC - European Standard EN71 : Part 3: 1994

U.S.A. - Federal Register 42 (170) 44193-44201 (1977)

Other Countries - To the best of our knowledge Ultramarine pigments are approved for food contact, cosmetics and toy use throughout the world – for more information see Holliday Pigments publication "Health and Safety"

The technical data or recommendations are given to the best of our knowledge but carry no guarantee or acceptance of responsibility. It is the duty of the user to assess the suitability of our products within their own formulation. Standard specifications, although current at the time of publication, are subject to change without notice.