

45080 Ultramarine Blue, light

Chemical Composition

Product name:	Ultramarine blue
Chemical name:	Sodium aluminium sulfo silicate
Color index:	C.I. Pigment Blue 29 : 77007
CAS No.:	57455-37-5 (TSCA) 101357-30-6 (EINECS)
EINECS:	3-099-283

Specification

Coloring (optical brightening 1:5 with titanium dioxide in linseed oil compared to standard)

DL:	max. \pm 0,30 CIEL
DH:	max. \pm 1,00 CIEL
DC:	max. \pm 1,30 CIEL
DE:	max. 1,50 CIEL
Screen oversize (45 μ m):	max. 0.10 %
Volatile part (105°C):	max. 1.00 %
Free sulfur:	max. 0.05 %
Water soluble parts:	max. 1.00 %

Typical data

Coloring strength:	83
Density:	2.35
Bulk density (g/cm ³):	0.45
Oil absorption:	31.0
Mean particle size (μ m):	0.85

Fastness/Resistance

Temperature stability:	> 350°C
Light fastness (Xenon lamp and daylight):	excellent (7 - 8)
Light fastness - dilution:	excellent (7 - 8)
Alkali resistance:	excellent
Acid resistance:	weak

Safety Data

Acute oral toxicity (LD50, rat):	> 10 g/kg
Skin irritation:	not irritant and not sensitizing
Eye irritation:	not irritant
Limit of exposition:	6 mg/m ³ (MAK value)
Ecology:	not hazardous

Regulations

Ultramarine blue is a non-toxic pigment. It is generally permitted for coloring objects/things having contact with foodstuffs and for the manufacture of toys.

Storage, Stability and Handling

Transportation and storage:

Not compatible substances:

Decomposition products:

Special protective measures:

Methods for cleaning up / absorption:

Do not store near acid substances.

Acids

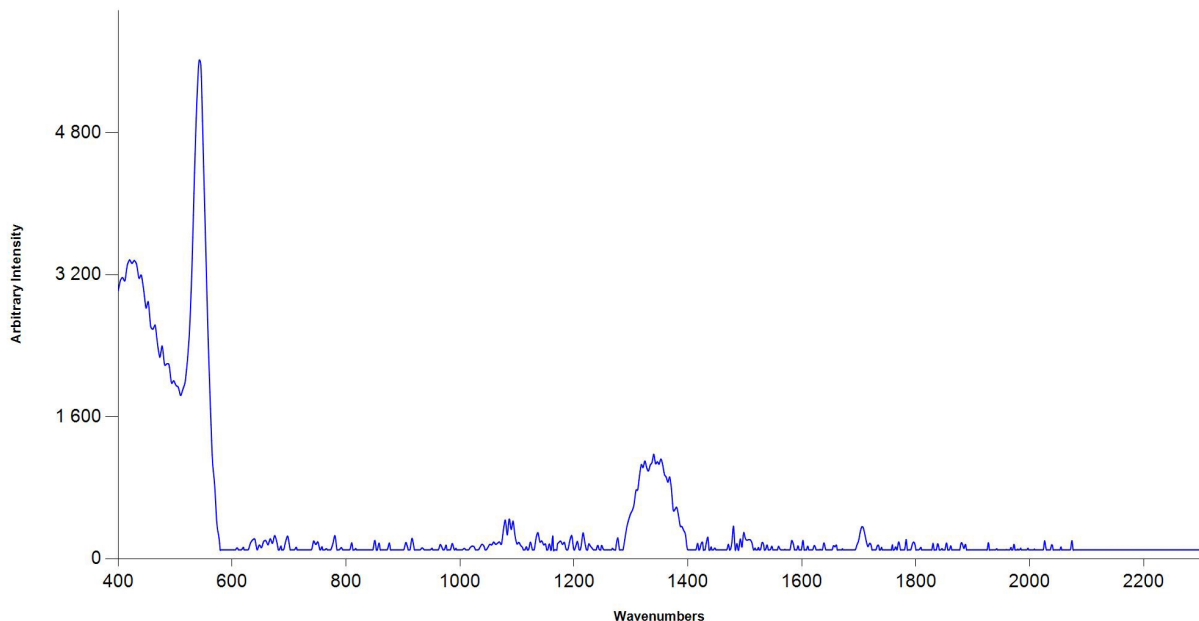
Release of hydrogen sulphide after contact with acids.

None, however avoid dust formation.

Clean up mechanically - avoid dust development.

Further information:

Raman-Spektrum for 45080:
(Quelle: MR PHSG, 2017)



— Sample Spectrum