



CHEMICAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY UNDERTAKING

The information contained herein is specific to the following grade :

Ultramarine Blue Grade : 02, 03, 05, 06, 07, 07T, 08, 08N, 08S, 09, 09T, 10, 15, 16, 17, 21, 22, 23, 24, 25, 26, 26H, 31, 32, 33, 34, 36, 37, 48, 51, 51S, 51T, 54, 55, 57, 61, 63, 64, 65, 67, 69, 74, 75, 79, 80, 81, 87, 88, 89, 96, 1701, 5008, 5151, 5252, 5858, 6008, A5610, A5613, A5614, A5616, A5618, A5620, CM2135, E1004, E1007, E1008, E1014, HG, Premier AR, Premier BC, Premier BC-R, Premier DFRX, Premier DGS, Premier DRM, Premier DRX, Premier DXSG, Premier DXSR, Premier FRX, Premier FXSR, Premier GM, Premier GS, Premier RM, Premier RS, Premier RX, Premier XSG, Premier XSR, TR

Uses : Ultramarine Blue is used as a colorant in plastics, paper, food contact packaging, inks, paints, cosmetics.

Suppliers : Holliday Pigments Ltd. Holliday Pigments SA
Addresses : Morley Street 203, route de Werviq
Kingston Upon Hull BP 50017
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England

Emergency Telephone : +44 1482 329875 +333 20 63 12 00

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Component : Ultramarine Blue Pigment
Chemical Name : Sodium alumino sulpho silicate
Colour Index number : Pigment blue 29 : 77007
CAS number : 57455-37-5

EINECS (Europe) : 3-099-283
TSCA (USA) : CAS number used
AICS (Australia) : CAS number used
DSL (Canada) : CAS number used
MITI (Japan) : 1-22

3. **HAZARD IDENTIFICATION**

Ultramarine Pigments are not classified as dangerous for supply or transport.

As with all clay minerals Ultramarine Blue can create a nuisance dust which may aggravate existing respiratory problems.

Contact with acids liberates hydrogen sulphide, a highly flammable toxic gas. This risk is greatly reduced with acid resistant grades 16, 17, 48, 54, 55, 89, 1701, Premier AR.

4. **FIRST AID MEASURES**

Inhalation	:	Remove patient to fresh air
Skin Contact	:	Wash with soap and water
Eye Contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If irritation persists seek medical attention
Ingestion	:	This product is non-toxic

5. **FIRE FIGHTING MEASURES**

Any convenient extinguishing medium is safe to use on this product

Specific Dangers : Sulphur Dioxide gas can be liberated if this product undergoes chemical change during a fire sustained by other materials.

Protective Equipment : Suitable breathing apparatus should be worn

6. **ACCIDENTAL RELEASE MEASURES**

Protective Equipment : Refer to Section 8 for details

Personal Precautions : None necessary unless contact with acids or fire should occur, in which case self contained breathing apparatus should be worn.

Environmental Precautions : Do not flush into surface water or sanitary sewer systems.

Methods for Cleaning : Sweep up spillages. In case of accidental major discharge into drains, flush with copious amounts of water to dilute any acidic conditions that may prevail.

7. **HANDLING AND STORAGE**

Protective Measures : Avoid excessive dust generation. Use extraction where possible and wear a dust mask (EN149, FFP1).

Storage : Store in a dry, well ventilated area. Do not store near acids or flammable materials.

Packaging Materials : Paper sacks, PE sacks or drums

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OEL (UK) : 10mg/m³, 8 hour TWA (inhalable dust)
OEL (UK) : 4mg/m³, 8 hour TWA (respirable dust)

Ultramarine blue is considered non-toxic, the limits quoted are the UK limits for nuisance dusts. Consult local regulations before using this product.

Respiratory Protection : Wear a suitable dust mask rated to EN149 FFP 1.
In the event of contact with acids or fire use self-contained breathing apparatus.
Hand Protection : This product is non-irritating, therefore protection is not essential. However it is recommended to use disposable nitrile or vinyl gloves when handling bulk quantities.
Eye Protection : Safety eyewear rated to EN166. Use goggles in windy conditions.
Body Protection : Wear overalls (cotton or polyester) when handling bulk quantities. Chemical resistant materials are not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Fine blue powder
Odour : None present
pH (10% suspension) : 7 - 9
Decomposition temp. : Loss of sulphur at 400°C / 750°F
Flammability : Not applicable. This product is not flammable and does not provide conditions favourable to combustion.
Explosive Limits : Ultramarine dusts do not form explosive mixtures in air.
Specific Gravity : 2.35
Solubility : Insoluble in water and organic solvents

10 STABILITY AND REACTIVITY

Stability : Stable in air up to 350°C / 660°F
Conditions to Avoid : At temperatures above 400°C/750°C in the presence of air an exothermic reaction can occur with the liberation of Sulphur Dioxide (SO₂) gas. Contact with acids liberates Hydrogen Sulphide (H₂S) gas.
Decomposition Products: Hydrogen Sulphide - on contact with acids
Sulphur Dioxide - in combustion

11 TOXICOLOGICAL INFORMATION

Oral LD50 (rat) : >10000mg/Kg
Skin Irritation
short term (rabbit) : None
long term (guinea pig) 6.25% conc : None
Mutagenicity : None
Teratogenicity : None

12 ECOLOGICAL EFFECTS

Ultramarine pigments are synthetic equivalents of the mineral Lapis Lazuli. They are extremely stable, except under acidic conditions when they will decompose to white siliceous material with the evolution of Hydrogen Sulphide gas (see sections 3 and 10).

CL 50 – 96 hours (fish) : >32000 mg/kg

* CE 50i – 24 hours- (Daphnia Magna): Daphnia >90 %

* In Germany, ultramarine blue is classified by KBwS (Commission for Evaluation of Substances Hazardous to Waters) as non hazardous to waters. (REG-N°1426).

13 DISPOSAL CONSIDERATIONS

Method of Disposal : Dispose of in accordance with local and national regulations governing chemical waste.

Other Information : Ultramarine pigments should not be washed into waste-water drains.
Ultramarine pigments should not be disposed of where there is a risk of contact with acids.

14 TRANSPORT INFORMATION

Ultramarine pigments are not classified as dangerous substances for supply or transport under international regulations.

Do not transport with acids.

15 REGULATORY INFORMATION

Ultramarine pigments are not classified as dangerous goods.

Packages carry the following safety advice

S14 : Keep away from acids
S29 : Do not empty into drains

16 OTHER INFORMATION

Although Ultramarine pigments are non toxic, inhalation of dusts and powders should be avoided in the general interests of health and safety. Use dust extraction systems and wear a dust protection mask if necessary.

The contents of this safety document conform to EC Directive 2001/58/CE.

The revisions made since the previous report are indicated by an * next to the entry.

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The MSDS has been written for the products listed in section 1 and must only be used for these products. If this product is used as a component in another product the information provided may no longer be applicable.