

## MATERIAL SAFETY DATA SHEET

### 1.-Identification:

Name: ULTRAMARINE BLUE

Synonym: Pigment Blue 29

Manufacture: Shandong Longkou Double Dragon Chemical Industry Co., Ltd.

Addr.:No.217,Zhenxing Road, Longkou, Shandong, China.

Tel.:0086 535 8812637 Fax.:0086 535 8812695

E-mail: sdddg@public.ytptt.sd.cn

### 2.-Composition:

Sodium Alumino Sulphosilicate

$\text{Na}_6\text{Al}_4\text{Si}_6\text{S}_4\text{O}_{20}$

### 3.-Hazard Identification

Ultramarine blue are totally atomic materials, are not classified as dangerous, do not present an environmental hazard.

Contact with acids liberates hydrogen sulphide, this gas is highly toxic and flammable. Acid resistant grades of ultramarine blue reduce the risk.

Like all fine powders can create dust nuisance, to be handle with due care.

### 4.-First Aid Measures:

Being not toxic, does not need any specific first aid measures.

In case of contact with eyes wash thoroughly with water.

### 5.-Fire-Fighting Measures:

Any extinguishing media will do.

In case of fire sustained by other burning material, ultramarines can undergo chemical changes and release sulphur dioxide gas, fire-fighters should wear suitable breathing apparatus.

### 6.-Accidental Release Measures:

No special precautions are requested except in case of fire contact with acids.

A suitable breathing apparatus must be worn.

Environmental precautions need sweep up of spillages and avoid contact with acids.

Do not flush into town drains. if by accident its happens flush with copious amounts of water.

### 7.-Handling and Storage:

Avoid breathing dust, Stains in clothes and skin can be easily removed with proper washing.

Storage should be done in a dry area, away from acids, in areas where there is no fire risk.

## 8.-Exposure Controls-Individual Protection:

Wear adequate dust masks if necessary, Avoid breathing dust.

Occupational exposure limits classify ultramarines as nuisance dust and therefore following controls apply and threshold limits are:

10mg/m<sup>3</sup> for 8 hours-Total inhalable dust.

5mg/m<sup>3</sup> for 8 hours-Total respirable dust.

Use local dust extraction where appropriate.

## 9.-Physical Data:

Boiling point:n/a

Melting point:> 1000°C.

Specific gravity:n/a

Vapor pressure:n/a

Vapor density:n/a

Appearance:Powder

Solubility in water:Insoluble

PH:6.5-7.5

Colour:Blue

Odor:Odorless

## 10.-Stability and Reactivity:

Thermal decomposition:> 350 °C. Temperatures above 400 °C in the presence of air may gradually lead sulphur dioxide formation.

In contact with strong acid liberates hydrogen sulphide.

## 11.-Toxicological information:

Ultramarines are non toxic products.

LD50 >10gr/kg(rats)

LC50 >32000mg/kg(fish)

## 12.-Ecological Data:

Ultramarines are very stable products except under acidic conditions when they will decompose in siliceous material and some hydrogen sulphide.

Ultramarines pose no threat to the environment.

## 13.-Disposal Procedures:

Waste disposal:according to local regulations

Do not allow spilled material to contaminate water sources.

Never dispose ultramarines where there is a risk of contact with acids.

## 14.-Transport Information:

Avoid possible contact with acids.

Ultramarines are not classified as dangerous under any international regulation.

Shipping containers may be bags(paper,plastic,textil.),drums or any other acceptable packaging.

## 15.-Regulatory Information:

Ultramarines are not classified as dangerous.

## 16.-Other Information:

General health and safety in working conditions should apply in line with safe handling of pigments.

Information given above is based on the present state of our knowledge. For particular applications users should make their own assessment of our products under their own conditions according to final requirements.

If local regulations exist, they should be applied.