



MATERIAL SAFETY DATA SHEET

According commission regulation UE 453/2010

Revised : 01/01/2013

Version : 7

Product : **BLUE MARKING CHALK POWDER**

1.- PRODUCT NAME :

Registered name: **BLUE MARKING CHALK POWDER**

Manufacturer : **DEFI – HOUILLERES DE CRUEJOULS S.A.S.**
Head office: **Z.I. La Gloriette**
38160 CHATTE
FRANCE

Phone number: +33 (0)4 76 64 85 64
Institute of toxicology: +34 91 562 04 20

2.- COMPOSITION / INFORMATION ON INGREDIENTS:

CAS N° 57455.37.5: Ultramarine Blue $AL_6Na_7O_{24}S_3Si_6$ > 20 %

CAS N° 471-34-1 : $CaCO_3$< 80 %

EINECS : 309-928-3

MITI (JAPAN) : 1-22

TSCA (U.S.A.), AICS (Australia), DSL (Canada) = CAS N°

3.- HAZARD IDENTIFICATION:

Ultramarines blue are totally non toxic products for human health and environment



4- FIRST AID MEASURES:

General Advice: Take off dirty clothes.

- After inhalation: Take the victim into the fresh air.
- After skin contact: Flush away with soap and water and rise
- After eyes contact: Flush eyes with plenty of water (10-15min.)
- After accidental ingestion: Rinse mouth with water and drink water. Call a physician.

5- FIRE FIGHTING MEASURES:

Not flammable product.

Suitable extinguishing media: no special extinguishing media

Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged.

Sulfur dioxide gas may be released.

Special protective equipments

When extinguishing fires, use breathing apparatus with an independent source of air.

6- ACCIDENT RELEASE MEASURES:

Personal Precautions:

Avoid dust development. (cf sections 7 and 8)

Environment precautions

Do not empty into drains, river, lakes or sewages.

Collect under wet conditions.

7- HANDLING AND STORAGE:

Handling:

Avoid breathing dust and use with adequate ventilation.

Spots on skin and clothes can be easily washed.

Requirements to be met by storerooms and containers:

Keep containers tightly sealed.

Packaging: bags (paper, plastic, cloth) or drums.



8.- EXPOSURE CONTROLS ABOUT ENGINEERING MEASURES :

Additional information about engineering

No special measures must be observed. Provision is required to keep exposure below permissible limit:

Ceiling Value : <math><10 \text{ mg/m}^3</math> for 8 hours – Total breathable in dust

TWA : <math><5 \text{ mg/m}^3</math> for 8 hours – Total breathable dust.

Personal protective equipment

If workplace limits are exceeded, a gas mask approved for this particular job must be worn :
Filter P2 (Solid and liquid particles) (DIN 3181)

9.- PHYSICAL AND CHEMICAL PROPERTIES:

Form:	Powder
Color:	Blue
Odor:	Odorless
PH:	8-9 (20gr/l at 20°C)
Melting Point :	>1000°C
Explosive properties	the material is not explosive
Solubility in water:	insoluble
Solubility in solvents:	insoluble
Density (20°C):	2,35 g/cm ³

10.- STABILITY AND REACTIVITY:

Conditions to avoid:

Above 400°C (750°F) in air presence of air sulfur dioxide gas is released.

Hydrogen Sulfide may be released in contact with acids. (not resistant grades)

11.- TOXICOLOGICAL INFORMATION

Non toxic products

LD50 > 10gr/Kg (rats)

LC50> 32000 mg/Kg (fish)



12.- ECOLOGICAL INFORMATION:

Ultramarines blue pose no threat to the environment.

13.- DISPOSAL CONSIDERATION:

Product

In accordance with local official regulations pass on to an appropriate waste dump. The product is no water-soluble and can thus be removed mechanically in suitable plants.

Contaminated packaging

Empty packaging can be recycled.

14.- TRANSPORT INFORMATION:

Not classified as hazardous under transport regulations

15- REGULATORY INFORMATION:

Ultramarines are not classified as dangerous

16- OTHER INFORMATION:

Users/Distributors of our products must handle and store them according to existing regulations. These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.