

**SAFETY DATA SHEET**

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**

Product name : Limoges Cobalt Blue Glaze.  
Product Number P3554.

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Powder for glazing of ceramic wares

**1.3. Details of the supplier of the safety data sheet**

Supplier PotteryCrafts Ltd.,  
Address : Campbell Road,  
Stoke-on-Trent,  
Staffordshire,  
England.  
ST4 4ET.

Telephone : +44 (0)1782 745000. Fax : + 44 (0)1782 746000.  
E. mail sales@potteryCrafts.co.uk

**1.4. Emergency telephone number : +44 (0)1782 745000.****SECTION 2 : HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture****In compliance with EC regulation No. 1272/2008 and its amendments.**

Respiratory sensitisation, Category 1 (Resp. Sens. 1, H334).  
Specific target organ toxicity (repeated exposure), Category 2 (STOT RE 2, H373).  
Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).  
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

**In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.**

Serious effects after prolonged or repeated inhalation exposure: harmful (Xn, R 48/20).  
Respiratory sensitisation (Xi, R 42).  
Aquatic environmental hazard, chronic toxicity: toxic (N, R 51/53).  
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

**2.2. Label elements****In compliance with EC regulation No. 1272/2008 and its amendments.**

Hazard pictograms :



GHS09



GHS08

Signal Word :

DANGER

Product identifiers :

EC 238-878-4 QUARTZ ( SILICA)  
EC 215-157-2 TRICOBALT TETRAOXYDE  
027-002-00-4 COBALT OXIDE

Hazard statements :

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H373 May cause damage to organs through prolonged or repeated exposure (if inhaled).  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P273 Avoid release to the environment.  
P284 [In case of inadequate ventilation] wear respiratory protection.

Precautionary statements - Response :

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P314 Get medical advice/attention if you feel unwell.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...  
P391 Collect spillage.

Precautionary statements - Disposal :

P501 Dispose of contents/container to certified company.

**2.3. Other hazards**

In use, may form flammable/explosive dust-air mixture.

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemical Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture satisfies neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The product gives potential for generation of airborne breathable crystalline silica dust during handling and use. Prolonged inhalation of breathable dust may cause lung fibrosis.

## **SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**

### **3.2. Mixtures**

#### **Composition :**

Identification	(EC) 1272/2008	67/548/EEC	Note	%
CAS: 14808-60-7 EC: 238-878-4 REACH: Exempt  QUARTZ ( SILICA)	GHS08 Wng STOT RE 2, H373	Xn Xn;R48/20	[1]	25 $\leq$ x % < 50
CAS: 471-34-1 EC: 207-439-9 REACH: Exempt  CALCIUM CARBONATE			[1]	10 $\leq$ x % < 25
CAS: 1308-06-01 EC: 215-157-2 TRICOBALT TETRAOXYDE	GHS09, GHS08 Dgr Resp. Sens. 1, H334 Aquatic Acute 1, H400 M Acute = 1 Aquatic Chronic 1, H410 M Chronic = 1	Xn,N Xn;R42 N;R50/53		2.5 $\leq$ x % < 10
CAS: 1332-58-7 EC: 310-194-1 REACH: Exempt  KAOLIN			[1]	0 $\leq$ x % < 2.5
INDEX: 027-002-00-4 CAS: 1307-96-6 EC: 215-154-6  COBALT OXIDE	GHS07, GHS09 Wng Acute Tox. 4, H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 10	Xn,N Xn;R22 Xi;R43 N;R50/53		0 $\leq$ x % < 2.5

#### **Information on ingredients :**

[1] Substance for which maximum workplace exposure limits are available.

## **SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

### **4.1. Description of first aid measures**

#### **In the event of exposure by inhalation :**

In the event of massive inhalation of dust, remove the person exposed to fresh air. Keep warm and at rest.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

In the event of an allergic reaction, seek medical attention.

#### **In the event of splashes or contact with eyes :**

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

#### **In the event of splashes or contact with skin :**

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

#### **In the event of swallowing :**

Seek medical attention, showing the label.

### **4.2. Most important symptoms and effects, both acute and delayed**

No data available.

### **4.3. Indication of any immediate medical attention and special treatment needed**

No data available.

## **SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

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**5.1. Extinguishing media**

**5.2. Special hazards arising from the substance or mixture**

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke.

**5.3. Advice for firefighters**

No data available.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**

Avoid inhaling dust.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Prevent any material from entering drains or waterways.

**6.3. Methods and material for containment and cleaning up**

Retrieve the product by mechanical means (sweeping/vacuuming) : do not generate dust.

**6.4. Reference to other sections**

No data available.

**SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of asthma, allergies and/or chronic or periodical breathing difficulties should not, under any circumstances, use these mixtures.

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Avoid handling which leads to dust formation.

**Fire prevention :**

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not breathe in dust.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Avoid exposure - obtain special instructions before use.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

**7.2. Conditions for safe storage, including any incompatibilities**

No data available.

**Storage**

Keep the container tightly closed in a dry, well-ventilated place.

**Packaging**

Always keep in packaging made of an identical material to the original.

**7.3. Specific end use(s)**

No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limits :**

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
14808-60-7	0.05 mg/m3	-	-	-	R
471-34-1	10 mg/m3	-	-	-	-
1332-58-7	2 mg/m3	-	-	-	R

- France (INRS - ED984 :2008) :

CAS	VME-ppm :	VME-mg/m3	: VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
14808-60-7	-	0.1 A	-	-	-	25
1332-58-7	-	10	-	-	-	25

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

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CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
14808-60-7	0.3 mg/m <sup>3</sup>	-	-	-	R
471-34-1	10 mg/m <sup>3</sup>	-	-	-	TI
1332-58-7	2 mg/m <sup>3</sup>	-	-	-	R

## 8.2. Exposure controls

### Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### - Eye / face protection

Avoid contact with eyes.

Before handling powders or dust emission, wear mask goggles in accordance with standard EN166.

Wear approved safety goggles. Contact lenses should not be worn when working with this product.

#### - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Recommended properties :

- Impervious gloves in accordance with standard EN374

#### - Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

#### - Respiratory protection

Avoid breathing dust.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Type of FFP mask :

Wear a disposable half-mask dust filter in accordance with standard EN149.

Category :

- FFP1

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

#### General information :

Physical state : Powder or dust.

Colour: Grey

#### Important health, safety and environmental information

pH : Not stated.

Neutral.

Boiling point/boiling range : Not specified.

Flash point interval : Not relevant.

Vapour pressure (50°C) : Not relevant.

Density : > 1

Water solubility : Insoluble.

Melting point/melting range : Not specified.

Self-ignition temperature : Not specified.

Decomposition point/decomposition range : Not specified.

### 9.2. Other information

No data available.

## SECTION 10 : STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

### 10.3. Possibility of hazardous reactions

No data available.

#### 10.4. Conditions to avoid

Avoid :

- formation of dusts

Dusts can form an explosive mixture with air.

#### 10.5. Incompatible materials

#### 10.6. Hazardous decomposition products

The thermal decomposition may release/form :

### **SECTION 11 : TOXICOLOGICAL INFORMATION**

#### 11.1. Information on toxicological effects

May cause hypersensitivity of the respiratory tracts with effects taking the form of asthma, rhinitis/conjunctivitis or alveolitis.

May cause severe damage to organs in the event of repeated or prolonged exposure.

##### 11.1.1. Substances

###### Acute toxicity :

TRICOBALT TETRAOXYDE (CAS: 1308-06-01)

Oral route : LD50 > 5000 mg/kg

Species : Rat

Dermal route : 2,000 < LD50 <= 5000 mg/kg

Species : Rat

##### 11.1.2. Mixture

###### Respiratory or skin sensitisation :

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

###### Other information

Prolonged and/or massive exposure to breathable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine breathable particles of crystalline silica.

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (IARC. Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.)

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of breathable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry).

There is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupation exposure limits.

###### Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 14808-60-7 : IARC Group 1 : The agent is carcinogenic to humans.

### **SECTION 12 : ECOLOGICAL INFORMATION**

Toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

#### 12.1. Toxicity

##### 12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

#### 12.2. Persistence and degradability

No data available.

#### 12.3. Bioaccumulative potential

No data available.

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

No data available.

#### 12.6. Other adverse effects

No data available.

### **SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

#### 13.1. Waste treatment methods

Do not pour into drains or waterways.

###### Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

###### Soiled packaging :

Empty container completely. Keep label(s) on container.

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## SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2013 - IMDG 2012 - ICAO/IATA 2014).

### 14.1. UN number

3077

### 14.2. UN proper shipping name

UN3077=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

### 14.3. Transport hazard class(es)

- Classification :



9

### 14.4. Packing group

III

### 14.5. Environmental hazards

- Environmentally hazardous material :



### 14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis	EQ	Cat.	Tunnel
	9	M7	III	9	90	5 kg	274 335 601	E1	3	E

IMDG	Class	2°Label	Pack gr	LQ	EMS	Provis.	EQ
	9	-	III	5 kg	F-A-S-F	274 335	E1

IATA	Class	2°Label	Pack gr	Passager	Passager	Cargo	Cargo	Note	EQ
	9	-	III	956	400 kg	956	400 kg	A97 A158 A179	E1
	9	-	III	Y956	30kg G	-	-	A97 A158 A179	E1

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.  
For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available.

## SECTION 15 : REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### - Classification and labelling information included in section 2:

The following regulations have been used:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.

#### - Container information:

No data available.

#### - Particular provisions :

No data available.

### 15.2. Chemical safety assessment

No data available.

## SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Social Dialogue on Respirable Crystalline Silica .

The Agreement was published in the Official Journal of the European Union (2006/C 279/02). The text of the Agreement and its annexes, including the Good Practices Guide, are available from <http://www.nepsi.eu> and provide useful information and guidance for the handling of products containing respirable crystalline silica.

This autonomous agreement, which receives the European Commission's financial support, is based on a Good Practices Guide. The requirements of the Agreement came into force on 25 October 2006.

**TRAINING:** Workers must be informed of the presence of crystalline silica and trained in the proper use and handling of this product as required under applicable regulations.

## In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols :



Harmful

Contains :

EC 238-878-4

EC 215-157-2



Dangerous for the environment

QUARTZ ( SILICE)

TRICOBALT TETRAOXYDE

Risk phrase :

R 51/53

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 42

May cause sensitization by inhalation.

R 420

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Safety phrase :

S 22

Do not breathe dust.

S 45

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S 61

Avoid release to the environment. Refer to special instructions/Safety data sheets.

S 36

Wear suitable protective clothing.

S 38

In case of insufficient ventilation, wear suitable respiratory equipment.

S 60

This material and its container must be disposed of as hazardous waste.

S 57

Use appropriate container to avoid environmental contamination.

## Title for H, EUH and R indications mentioned in section 3 :

H302

Harmful if swallowed.

H317

May cause an allergic skin reaction.

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H373

May cause damage to organs through prolonged or repeated exposure .

H400

Very toxic to aquatic life.

H410

Very toxic to aquatic life with long lasting effects.

R 22

Harmful if swallowed.

R 42

May cause sensitization by inhalation.

R 43

May cause sensitisation by skin contact.

R 48/20

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R 50/53

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## Abbreviations :

ADR :

European agreement concerning the international carriage of dangerous goods by Road.

IMDG :

International Maritime Dangerous Goods.

IATA :

International Air Transport Association.

ICAO :

International Civil Aviation Organisation

RID :

Regulations concerning the International carriage of Dangerous goods by rail.

WGK :

Wassergefahrdungsklasse (Water Hazard Class).

GHS08 :

Health hazard

GHS09 :

Environment

Revision Date

10/02/2020.

## Disclaimer

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