

# **SAFETY DATA SHEET- POTTERS PLASTER**

According to regulation (EC) No 2020/878

## **Section 1: Identification of the substance/mixture and of the company/undertaking**

### 1.1 Product Identifier

Potters Plaster

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

#### Use of the substance/mixture

To produce working moulds for the slip casting of tableware etc.

### 1.3 Details of the supplier of the safety data sheet

Valentine Clays LTD

Valentine Way

Stoke on Trent

ST4 2FJ

t: +44 (0)1782 271200

e: sales@valentineclays.co.uk

w: www.valentineclays.co.uk

### 1.4 Emergency Telephone Number

+44 (0)1782 271200

## **Section 2: Hazards Identification**

### 2.1 Classification of the substance or mixture

#### In compliance with EC regulation No. 1272/2008 and its amendments

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

### 2.2 Label Elements

#### In compliance with EC regulation No. 1272/2008 and its amendments.

No labelling requirements for this mixture.

### 2.3 Other Hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals 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.

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## Section 3: Composition/information on ingredients

### 3.1 Chemical Composition

Component	CAS	EC No	REACH	% Composition
PLATRE 1	7778-18-9	231-900-3	1-2119444918-26	100

#### Information on Ingredients

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

## Section 4: First Aid Measures

### 4.1 Description of first aid measures

After Inhalation- Take the person out into the open air. If troubles remain, seek medical advice.

After Ingestion- Seek medical attention, showing the label.

After Eye Contact- Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open. If there is any redness, pain or visual impairment, consult an ophthalmologist

After Skin Contact- Watch out for any remaining product between skin and clothing, watches, shoes, etc.

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

No specific symptoms or effects have been reported.

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

None

## Section 5: Firefighting Measures

### 5.1 Extinguishing Media

#### Suitable Methods of Extinction

Non-combustible

#### Unsuitable Methods of Extinction

None

### 5.2 Special Hazards arising from the Substance or Mixture

None

### 5.3 Advice for Fire Fighters

Special protective equipment for fire-fighters: None.

## 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 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

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

## 6.4 Reference from other sections

No data available.

## Section 7: Handling and Storage

### 7.1 Precautions for safe handling

Always wash hands after handling.

#### Fire Prevention

Prevent access by unauthorised personnel.

#### Recommended Equipment and Procedures

For personal protection, see section 8. Observe precautions stated on label and industrial safety regulations.

#### 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

Store Dry

#### 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
7778-18-9	10 mg/m3	-	-	-	I

Germany - AGW (BAuA - TRGS 900, 21/06/2010)

CAS	VME	VME	Excess	Notes
7778-18-9	-	6 mg/m3 A	-	DFG

Belgium (Order of 19/05/2009, 2010)

CAS	TWA	STEL	Ceiling	Definition	Criteria
7778-18-9	10 mg/m3	-	-	-	-

France (INRS - ED984 :2008)

CAS	VME-ppm	VME-mg/m3	VLE-ppm	VLE-mg/m3	TMP No
7778-18-9	-	10	-	-	-

Spain (Instituto Nacional de Seguridad e Higiene en el Trabajo (INSHT), Mayo 2010)

CAS	TWA	STEL	Ceiling	Definition	Criteria
7778-18-9	10 mg/m3	-	-	-	-

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Derived no effect level (DNEL) or derived minimum effect level (DMEL)

Calcium Sulphate (CAS: 7778-18-9)

## Final Use

Exposure method  
Potential health effects  
DNEL

Exposure method  
Potential health effects  
DNEL

## Final use

Exposure method  
Potential health effects  
DNEL

Exposure method  
Potential health effects  
DNEL

Exposure method  
Potential health effects  
DNEL

Exposure method  
Potential health effects  
DNEL

## Workers

Inhalation.  
Short term systemic effects.  
5082 mg of substance/m3

Inhalation.  
Long term systemic effects.  
21.17 mg of substance/m3

## Man exposed via the environment.

Ingestion.  
Short term systemic effects.  
11.4 mg/kg body weight/day

Ingestion.  
Long term systemic effects.  
1.52 mg/kg body weight/day

Inhalation.  
Short term systemic effects.  
3811 mg of substance/m3

Inhalation.  
Long term systemic effects.  
5.29 mg of substance/m3

## Predicted no effect concentration (PNEC)

Calcium Sulphate (CAS: 7778-18-9)  
Environmental Compartment  
PNEC

Wastewater treatment plant  
100mg/l

## 8.2 Exposure Controls

### Personal Protection Measures, such as Personal Protective Equipment



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.

### Hand Protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

### 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.

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## **Respiratory Protection**

Avoid breathing dust.

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

## **Section 9: Physical and Chemical Properties**

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

#### **General Information**

Physical State- Powder or Dust

#### **Important Health, Safety and Environmental Information**

pH- Not relevant.

Boiling point/boiling range- Not relevant.

Flash point interval- Not relevant.

Vapour pressure (50°C)- Not relevant.

Density- Not stated.

Water solubility- Soluble.

Melting point/melting range- Not relevant.

Self-ignition temperature- Not relevant.

Decomposition point/decomposition range- Not relevant.

### **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

### **10.5. Incompatible materials**

None.

### **10.6. Hazardous decomposition products**

The thermal decomposition may release/form

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## Section 11: Toxicological Properties

### 11.1 Information on toxicological effects

No Data Available

#### Substances

#### Acute Toxicity

##### Calcium Sulphate (CAS 7778-18-9)

Oral Route

LD50 > 1581 mg/kg

Species- Rat

OECD Guideline 420 (Acute Oral Toxicity Fixed Dose Method)

Inhalation Route

LC50 > 2.61 mg/l

Species- Rat

OECD Guideline 403 (Acute Inhalation Toxicity)

#### Skin Corrosion/Skin Irritation

##### Calcium Sulphate (CAS 7778-18-9)

Corrosivity

No observed effect.

Species- Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

#### Serious Damage to eyes/eye irritation

##### Calcium Sulphate (CAS 7778-18-9)

Species- Rabbit

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

#### Respiratory or Skin Sensitisation

##### Calcium Sulphate (CAS 7778-18-9)

Local lymph node stimulation test

Non-Sensitizer

Species- Guinea pig

OECD Guideline 406 (Skin Sensitisation)

Guinea Pig Maximisation Test (GMPT)

Non-sensitizer

Species- Guinea pig

OECD Guideline 406 (Skin Sensitisation)

#### Germ Cell Mutagenicity

##### Calcium Sulphate (CAS 7778-18-9)

No mutagenic effect.

Mutagenesis (in vivo)

Negative

Species- Mouse

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Mutagenesis (in vitro)

Negative

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

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## Carcinogenicity

### Calcium Sulphate (CAS 7778-18-9)

Carcinogenicity Test	Negative
	No carcinogenic effect.

## Reproductive toxicant

### Calcium Sulphate (CAS 7778-18-9)

No toxic effect for reproduction

Study on development	Species- Rat
	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

## Mixture

No toxicological data available for the mixture.

## Section 12: Ecological Information

### 12.1 Toxicity

#### Substances

##### Calcium Sulphate (CAS 7778-18-9)

Fish Toxicity	LC50 > 79mg/l
	Species- Other
	Duration of Exposure- 96hr
	OECD Guideline 203 (Fish, Acute Toxicity Test)
Crustacean toxicity	EC50 > 79 mg/l
	Species- Daphnia sp.
	Duration of exposure- 48 h
	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Algae Toxicity	ECr50 > 79 mg/l
	Species- Selenastrum capricornutum
	Duration of exposure- 72 h
	OECD Guideline 201 (Alga, Growth Inhibition Test)

#### Mixtures

No aquatic toxicity data available for the mixture.

### 12.2 Persistence and Degradability

Abiotic Degradation Physical- and photo-chemical elimination: The product hydrolyses quickly in the presence of water to: Calcium and Sulphate Ions The individual components are poorly eliminated from water.

Inorganic product which is not eliminable from water through biological cleaning processes.

#### Substances

##### Calcium Sulphate (CAS 7778-18-9)

Biodegradability- no degradability data is available; the substance is considered as not degrading quickly.

### 12.3 Bio accumulative potential

Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. No indication to bioaccumulation potential. The ecological data were measured on the hydrolysed product. According to experiences this product is inert and not degradable biologically.

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### **12.4 Mobility in Soil**

Water-soluble solid. Natural constituent in soils. If product enters soil, it will be mobile and may contaminate groundwater

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

This substance does not meet the criteria for classification as PBT or vPvB.

### **12.6 Other adverse effects**

According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as dangerous for the environment.

## **Section 13: Waste Disposal**

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 codes / waste designations according to EWC**

10 12 wastes from manufacture of ceramic goods, bricks, tiles and construction products.

10 12 06 discarded moulds.

#### **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.

Give to a certified disposal contractor.

## **Section 14: Transport Information**

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 - IMDG 2014 - ICAO/IATA 2015).

## **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-

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

EU Regulation No. 1272/2008 amended by EU Regulation No. 1297/2014

#### **Container Information**

No Data Available

#### **Particular Provisions**



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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.

#### **Abbreviations**

DNEL- Derived No-Effect Level

PNEC- Predicted No-Effect Concentration

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.

PBT- Persistent, bio accumable and toxic.

vPvB- Very persistent, very bio accumable.

SVHC- Substances of very high concern.

This data sheet is provided under CLP and REACH Regulation and is not intended to constitute an assessment of workplace risk associated with product(s) used as required under any other Health and Safety Regulation.

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.

Date of Review: January 2025

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