



Natural self-hardening clay

Rev. 6

Date: 08/04/2014

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1. Product and company identification:

Generic name: Natural self-hardening clay

Reference: Natural self-hardening clay White
Natural self-hardening clay Terracotta
Natural self-hardening clay Yellow
Natural self-hardening clay Green
Natural self-hardening clay Blue
Natural self-hardening clay Black

Type of product and use: Natural self-hardening clay.

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Person in charge of Safety Data Sheet: msds@sio-2.com

2. Identification of dangers

This preparation is not considered as dangerous under the Dangerous Preparations Regulations (R. D. 255/2003 and its amendments).

The product contains quartz. Prolonged exposures to high concentrations of clay powder can cause lung disease. See heading 8: Exposure controls and personal protection.

3. Composition / Information on ingredients

3.1. Chemical and mineralogical characterization:

The body is composed by natural clay, calcium carbonate, organic dye, water, organic polymer, CMC, cellulose and preservative. The clay is a mixture of disilicates (kaolonite mainly), quartz and feldspars.

3.2. Hazardous components:

Name	CE / EINECS	CAS	Concentration	Hazard Symbol	R phrases
Quartz	238-455-4	14808-60-7	< 20 %	Subst. with occupational exposure limit	-

4. First-aid measures

- 4.1. **Inhalation:** inhalation of concentrated clay powder can cause respiratory discomfort. Cough and remove to fresh air, away from dusty area.
- 4.2. **Skin contact:** no produce negative effects except sensitive people (allergic). Wash with water.
- 4.3. **Eye contact:** for direct contact, immediately flush eyes with plenty of water.
- 4.4. **Ingestion:** it no needs special measures. See heading 11: Toxicological information.

Generic: In case of doubt or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.



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5. Fire-fighting measures

This product is not inflammable.

- 5.1. Extinguishing media: water, CO₂, foam, chemical powders according to the materials involved in the fire.
- 5.2. Recommendations: avoid breathing fumes. You may need a suitable respiratory equipment and eyes protection.

6. Accidental release measures

- 6.1. Personal protection: it is not necessary.
- 6.2. Environmental precautions: should not allow product to enter drains or watercourses.
- 6.3. Method for cleaning up: after collecting the product, clean with water.

7. Handling and storage

- 7.1. Handling: not eat or drink during work. For personal protection see section 8.3
- 7.2. Storage: Store the product according to local regulations
To keep out of frost (to keep at temperature >0°C).
Incompatibles materials: none in particular.
Directions to the locals: adequately ventilated locals.

8. Exposure controls and personal protection

8.1. Technical order measures:

In case of exposure to **dust-state** material (powder), provide adequate ventilation. If this were not sufficient to maintain concentrations below exposure limits must be a corresponding personal protection.

8.2. Exposure limits:

Values TLV according to *American Conference of Governmental Industrial Hygienists (ACGIH)*.

Name	EINECS	CAS	STEL ¹		TWA ²	
			ppm	mg./m ³	ppm	mg./m ³
Powder	-	-	-	-	-	10
Quartz powder	238-455-4	14808-60-7	-	-	-	0.1

¹ Exposure: 15 min.

² Exposure: 8 h.

8.3. Personal protection:

Respiratory protection: filter P2 in case of powder handling.

Hands protection: not special conditions are required, except for allergic people.

Eye protection: protection glasses in case of powder handling.

Skin protection: not special conditions are required.

9. Physical and chemical properties

Appearance	plastic clay
Odour	odourless
Firing range	not applicable
Melting point	>1100°C



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Ignition	not applicable
Flammability	it is not inflammable
Explosive properties	not applicable
Density	2 g/cm ³
Water solubility	insoluble
pH	6 – 8 (10%)

10. Stability and reactivity

10.1. Stability:

The product is stable in the original packaging conditions. It dries when it is removed from the package in a room temperature.

It completely dries at 110 °C.

10.2. Hazardous decomposition products: not give off dangerous products.

11. Toxicological information

The product is not classified as dangerous according to Community legislation in force (Commission Directive 91/155/UE) and Spanish legislation (*Reglamento de Sustancias Peligrosas* R.D. 363/95 and *Reglamento de Preparados Peligrosos* R.D. 255/2003).

Please note the concentration of each of the substances in order to evaluate the toxicological effects resulting from exposure to the preparation in dust-state (powder).

Toxicological information of the main substances in the preparation:

- In powder state, prolonged inhalation of silica (quartz: EINECS 238-455-4, cristobalite: EINECS 238-878-4) may cause silicosis and other serious respiratory diseases.

The product is suitable for children, from 3 years, in accordance with the European Standard **EN-71** and it is approved by the U.S. Art & Creative Materials Institute (**AP non toxic** seal).

12. Ecological information

The preparation has been evaluated following the conventional method of R.D. 255/2003 (Regulation of Dangerous Preparations) and is NOT classified as dangerous for the ENVIRONMENT.

13. Disposal considerations

Recover if is possible. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

ADR/TPC:	not applicable
RID/TPF:	not applicable
IMDG:	not applicable
IATA/ICAO:	not applicable

The product does not involve any danger for transport.

15. Regulatory information

According to the Dangerous Preparations Regulations (Royal Decree 255/2003, as amended) this product is classified as NOT DANGEROUS. Directive 1999/45/EC and Regulation EC No 1907/2006 (REACH).



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Hazard symbols: not applicable

R and S phrases: not applicable

16. Other information

Ceramic or clay pastes are not indicated in the European Inventory of Existing Commercial Chemical Substances (EINECS) as a particular substance, but are included within the "substances occur naturally."

EINECS: 310-127-6
CAS: 999999-99-4

The information of this Safety Data Sheet is based on the present knowledge and on the EU and Spain regulations. The work conditions of the users of the product are out of our knowledge and control.

The product should not be used for different purposes described in the heading 1, without special instructions in writing given by the manufacturer.

Is always a responsibility of the users to take the appropriate measures according to the current regulations.

The information of this Safety Data Sheet is given in good faith and it only means a description of the safety requirements of the product. It is not a guarantee of his properties.

The information in this Safety Data Sheet has been prepared in accordance with RD 255/2003 (Regulation of Dangerous Preparations), Directive 1999/45/EC and Regulation EC No 1907/2006 (REACH).

This MSDS cancels and replaces any preceding release.