



## Material Safety Data Sheet

SDS date: 11-12-2020

SDS version: 1.2

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

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#### 1.1. Product Identifier

Trade Name: Silk Clay, standard

Product- no.: -

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

Recommended uses: Self-hardening modeling material.

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

##### Company and address

Creotime.com

Rasmus Færchs Vej 23

7500 Holstebro

Tel.: +45 96 13 30 10

##### Contact person and E-mail:

info@creotime.com

##### The Safety data sheet is completed and validated by:

mediator A/S, Centervej 2, DK-6000 Kolding. Consultant: LMJ

#### 1.4. Emergency telephone number

Use your national or local emergency number - See section 4 "First aid measures".

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### SECTION 2: Hazards identification

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#### 2.1. Classification of the substance or mixture

For the colors White and Brown:

CLP (1272/2008): EUH212, EUH210.

See full text of H-phrases in section 16.

#### 2.2. Label elements

For the colors White and Brown:

Warning! Hazardous respirable dust may be formed when used. Do not breathe dust. (EUH212)

Safety data sheet available on request. (EUH210)

**Signal word:**

-

#### 2.3. Other hazards

For the colors White and Brown:

The product contains Titanium dioxide which is only regarded as carcinogenic in powdered products.



**Additional labelling:**

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**Additional warnings:**

This product complies with the requirements of the standard set out by The Danish Joint Council of Creative & Hobby Materials (Fællesrådet for Formnings- og Hobbymaterialer), version 11 of 1 november 2018, on creative and occupational materials.

**SECTION 3: Composition/information on ingredients**

**3.1./3.2. Substances/Mixtures**

Substance	EU-Index no.	Cas / EINECS no.	CLP-classification	w/w%	Note
Bronopol	603-085-00-8	52-51-7/ 200-143-0	Acute Tox. 4;H302+H312, Skin Irrit. 2;H315, Eye Dam. 1;H318, STOT SE 3;H335, Aquatic Acute 1;H400, M=10	0,01- 0,05	-
For the colors White and Brown:					
Titanium dioxide	-	13463-67-7/ 236-675-5	Carc. 2;H351(i)	1-2	1

1 = The substance has a national exposure limit.

See full text of H-phrases in section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

- Inhalation: Not relevant.
- Ingestion: Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of discomfort.
- Skin contact: Wash skin with soap and water. Seek medical advice in case of discomfort.
- Eye contact: Flush with water (preferably using eye wash equipment) until irritation subsides. Remove contact lenses. Seek medical advice if symptoms persist.

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

May cause slight irritation to the skin and eyes.

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

When obtaining medical advice, show the safety data sheet or label.



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## SECTION 5: Firefighting measures

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### 5.1. Extinguishing media

Surrounding fire: Extinguish with powder, foam or carbon dioxide. Do not use water stream, as it may spread the fire.

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

The product is not directly flammable.

### 5.3. Advice for firefighters

Avoid inhalation of vapour and fumes – seek fresh air.

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## SECTION 6: Accidental release measures

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

None.

### 6.2. Environmental precautions

Avoid unnecessary release to the environment. Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.

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

Wipe up minor spills with a cloth. Rinse with water. See section 13 for instructions on disposal.

### 6.4. Reference to other sections

See above.

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## SECTION 7: Handling and storage

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### 7.1. Precautions for safe handling

None.

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

Keep in tightly closed original packaging.

### 7.3. Specific end use(s)

See section 1.

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## SECTION 8: Exposure controls/personal protection

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### 8.1. Control parameters

Occupational exposure limits according to EH40/2005 Workplace exposure limits (Fourth Edition, 2020):

Substance	Long-term exposure limit	Short-term exposure limit	Note
Titanium dioxide			
Total inhalable	10 mg/m <sup>3</sup>	-	-
Respirable	4 mg/m <sup>3</sup>	-	-



**DNEL and PNEC values:**

DNEL – Bronopol:

**Workers**

Inhalation - Chronic Systemic	4,1 mg/m <sup>3</sup>
Inhalation - Acute Systemic	12,3 mg/m <sup>3</sup>
Inhalation - Chronic Local	4,2 mg/m <sup>3</sup>
Inhalation - Acute Local	4,2 mg/m <sup>3</sup>
Dermal - Chronic Systemic	2,3 mg/kg bw/day
Dermal - Acute Systemic	7 mg/kg bw/day
Dermal - Chronic Local	13 µg/cm <sup>2</sup>
Dermal - Acute Local	13 µg/cm <sup>2</sup>

**Consumers**

Inhalation - Chronic Systemic	1,2 mg/m <sup>3</sup>
Inhalation - Acute Systemic	3,7 mg/m <sup>3</sup>
Inhalation - Chronic Local	1,3 mg/m <sup>3</sup>
Inhalation - Acute Local	1,3 mg/m <sup>3</sup>
Dermal - Chronic Systemic	1,4 mg/kg bw/day
Dermal - Acute Systemic	4,2 mg/kg bw/day
Dermal - Chronic Local	8 µg/cm <sup>2</sup>
Dermal - Acute Local	8 µg/cm <sup>2</sup>
Oral - Chronic Systemic	0,35 mg/kg bw/day
Oral - Acute Systemic	1,1 mg/kg bw/day

PNEC- Bronopol:

Fresh water	0,01 mg/L
Intermittent releases (Fresh water)	0,003 mg/L
Marine water	0,001 mg/L
Soil	0,5 mg/kg soil dw

**8.2. Exposure controls**

There are no exposure scenarios for this product.

**Appropriate engineering controls:**

-

**Personal protective equipment:**

Respiratory protection:	Not required.
Hand protection:	Not required.
Eye/face protection:	Not required.
Skin protection:	Not required.

**Environmental exposure controls:**

Make sure that when using the product damming material is available in immediate vicinity.



## SECTION 9: Physical and chemical properties

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

Appearance:	Multiple colours play dough
Odour:	Mild
Odour threshold:	-
pH:	-
Melting point/ Freezing Point (°C):	-
Initial boiling point and boiling range (°C):	-
Flash point (°C):	-
Evaporation rate:	-
Flammability (solid, gas)	-
Upper / lower flammability or explosion limits (vol-%):	-
Vapour pressure (mbar, 25 °C):	-
Vapour density (air=1)	-
Relative density (g/ml):	-
Solubility(ies):	-
Partition coefficient: n-octanol/water:	-
Auto-ignition temperature (°C):	-
Decomposition temperature (°C):	-
Viscosity (mPas, 25 °C):	-
Explosive properties:	-
Oxidising properties:	-

### 9.2. Other information

Content of solids (%):	-
Surface tension (mN/m, 25 °C):	-

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Non-reactive.

### 10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

Avoid heating.

### 10.5. Incompatible materials

Avoid contact with strong oxidising agents.

### 10.6. Hazardous decomposition products

No special precautions regarding contact with other materials at the recommended storage conditions.



## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity:** Based on the existing data, the classification is not met.

Substance	Route of exposure	Species	Test	Result
Titanium dioxide	Inhalation	Rat	LC50 / 4 Hours	> 6,82 mg/L
Bronopol	Oral	Rat	LD50	305 mg/kg bw
Bronopol	Dermal	Rabbit	LD50	> 2000 mg/kg bw

**Skin corrosion/irritation:** May cause slight irritation.

**Serious eye damage/irritation:** May cause eye irritation.

**Respiratory or skin sensitisation:** Based on the existing data, the classification is not met.

**Germ cell mutagenicity:** Based on the existing data, the classification is not met.

#### **Carcinogenicity:**

For the colors White and Brown:

Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

**Reproductive toxicity:** Based on the existing data, the classification is not met.

**STOT-single exposure:** Based on the existing data, the classification is not met.

**STOT-repeated exposure:** Based on the existing data, the classification is not met.

**Aspiration hazard:** Based on the existing data, the classification is not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

Substance	Test duration	Species	Test	Result
Titanium dioxide	24 Hours	Daphnia	EC50	> 5600 mg/L
Bronopol	96 Hours	Fish	LC50	35,7 mg/L
Bronopol	48 Hours	Daphnia	EC50	1,4 mg/L
Bronopol	72 Hours	Algae	EC50	0,25 mg/L

### 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Bronopol	Yes	OECD 301 B	28 Days: 70-80%

### 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
Bronopol	-	0,22	-



#### 12.4. Mobility in soil

Test data are not available.

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

The mixture does not meet the criteria for PBT or vPvB.

#### 12.6. Other adverse effects

None.

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### SECTION 13: Disposal considerations

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#### 13.1. Waste treatment methods

The product is not classified as hazardous waste according to Waste Management. Disposal of spillage and waste via the municipal waste collection service with the specifications below is recommended.

##### EWC Code

16 05 09

#### Specific labelling

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#### Contaminated packaging:

Uncleansed packaging is to be disposed of via the local waste-removal scheme.

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### SECTION 14: Transport information

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The product is not covered by the rules for transport of dangerous goods by road and sea according to ADR and IMDG.

#### 14.1 -14.4.

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#### 14.5. Environmental hazards

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#### 14.6. Special precautions for user

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#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

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### SECTION 15: Regulatory information

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

##### Sources:

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##### Restrictions for application:

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##### Demands for specific education:

-

##### Additional labelling:

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#### 15.2. Chemical safety assessment

Chemical safety assessment has not been performed.



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## SECTION 16: Other information

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### Other information:

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### Sources:

EC regulation 1907/2006 (REACH).

EC Regulation 1272/2008 (CLP).

EU regulation no. 276/2010

Directive 2000/532/EC

### Full text of H-phrases as mentioned in section 2+3:

H302 - Harmful if swallowed.

H312 - Harmful in contact with skin.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H335 - May cause respiratory irritation.

H351(i) - Suspected of causing cancer by inhalation.

H400 - Very toxic to aquatic life.

EUH212 - Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

Classification according to Regulation (EC) Nr. 1272/2008:	
EUH212	Expert judgement

### Abbreviations and acronyms used in the safety data sheet:

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals. Regulation (EC) No 1907/2006.

CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.

CAS-Number.: Chemical Abstracts Service number.

EC-Number.: EINECS and ELINCS Number (see also EINECS and ELINCS).

DNEL: Derived No Effect Level.

PNEC(s): Predicted No Effect Concentration(s).

STOT: Specific Target Organ Toxicity.

LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).

LC50: Lethal Concentration to 50 % of a test population.

EC50: The effective concentration of substance that causes 50% of the maximum response.

PBT: Persistent, Bioaccumulative and Toxic.

vPvB: Very Persistent and Very Bioaccumulative.

NOEC: The highest tested concentration at which, in a study, no statistically significant effect is observed in the exposed population compared with an appropriate control group.

NOAEL: The highest tested dose or exposure level at which there are no statistically significant increases in the frequency or severity of adverse effects between the exposed population and an appropriate control group; some effects may be produced at this level, but they are not considered adverse or precursors of adverse effects.

### Other

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

### Minor changes have been made in following sections:

1,2,16.



According to EU regulation 1907/2006 (REACH)



**This material safety data sheet replaces version:**  
1.1 (27-07-2020)

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