

## Material Safety Data Sheet

SDS date: 26-07-2017

SDS version: 2.0

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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

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

Tlf.: +45 96 13 30 10

##### Kontaktperson og mail:

Tina Andresen, info@creotime.com

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

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

#### 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

The product is not subject to labelling under CLP Regulation No. 1272/2008.

#### 2.2. Label elements

-

##### Signal word:

-

#### 2.3. Other hazards

-

##### Additional labelling:

-

##### Additional warnings:

-

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## SECTION 3: Composition/information on ingredients

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### 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/<br>200-143-0 | Acute Tox. 4;H302+H312, Skin Irrit. 2;H315, Eye Dam. 1;H318, STOT SE 3;H335, Aquatic Chronic 1;H400, M=10 | 0,01-0,05 | -    |
| <b>Neon Orange – Neon red – Neon purple contains:</b>          |              |                       |   |           |      |
| Disodium 2-(2,4,5,7-tetraiod-6-oxido-3-oxoxanthen-9-yl)benzoat | -            | 16423-68-0/ 240-474-8 | Aquatic Acute 3;H412  | 1-3       | -    |

For the wording of the listed risk phrases refer to section 16.

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## SECTION 4: First aid measures

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### 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 persistent discomfort.                                       |
| Eye contact:            | Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist. |
| Additional information: | When obtaining medical advice, show the safety data sheet or label.<br>Symptoms: See section 11.                           |

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

Risk of burns to the skin upon contact with the heated product.

### 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. Avoid inhalation of vapour and fumes – seek fresh air.

### 5.3. Advice for firefighters

Move containers from danger area if it can be done without risk. If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn.

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## SECTION 6: Accidental release measures

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

No special requirements.

### 6.2. Environmental precautions

Avoid unnecessary release to the environment.

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

Sweep up/collect spills for possible reuse or transfer to suitable waste containers.

### 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

See section 8 for information about precautions for use and personal protective equipment.

### 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:

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

### DNEL and PNEC values:

DNEL - Bronopol:

|            |            |                  |                    |                        |
|------------|------------|------------------|--------------------|------------------------|
| Dermal     | Short term | Systemic effects | Workers            | 7 mg/kg bw/day         |
| Inhalation | Short term | Systemic effects | Workers            | 12.3 mg/m <sup>3</sup> |
| Dermal     | Short term | Local effects    | Workers            | 13 µg/cm <sup>2</sup>  |
| Inhalation | Short term | Local effects    | Workers            | 4.2 mg/m <sup>3</sup>  |
| Dermal     | Long Term  | Systemic effects | Workers            | 2.3 mg/kg bw/day       |
| Inhalation | Long Term  | Systemic effects | Workers            | 4.1 mg/m <sup>3</sup>  |
| Dermal     | Long Term  | Local effects    | Workers            | 13 µg/cm <sup>2</sup>  |
| Inhalation | Long Term  | Local effects    | Workers            | 4.2 mg/m <sup>3</sup>  |
| Oral       | Short term | Systemic effects | General population | 1.1 mg/kg bw/day       |
| Dermal     | Short term | Local effects    | General population | 8 µg/cm <sup>2</sup>   |
| Inhalation | Short term | Local effects    | General population | 1.3 mg/m <sup>3</sup>  |
| Oral       | Long Term  | Systemic effects | General population | 0.35 mg/kg bw/day      |
| Dermal     | Long Term  | Systemic effects | General population | 1.4 mg/kg bw/day       |
| Inhalation | Long Term  | Systemic effects | General population | 1.2 mg/m <sup>3</sup>  |
| Dermal     | Long Term  | Local effects    | General population | 8 µg/cm <sup>2</sup>   |
| Inhalation | Long Term  | Local effects    | General population | 1.3 mg/m <sup>3</sup>  |

PNEC - Bronopol:

|       |                       |                   |
|-------|-----------------------|-------------------|
| Water | Fresh                 | 0.01 mg/L         |
| Water | Marine                | 0.0008 mg/L       |
| Water | Intermittent releases | 0.0025 mg/L       |
| Soil  | -                     | 0.5 mg/kg soil dw |

## 8.2. Exposure controls

There are no exposure scenarios for this product.

### Appropriate engineering controls:

Not relevant.

### Personal protective equipment:

|                           |               |
|---------------------------|---------------|
| Breathing equipment:      | Not required. |
| Hand protection:          | Not required. |
| Eye protection:           | Not required. |
| Body and skin protection: | Not required. |

### Environmental exposure controls:

Ensure compliance with local regulations for emissions.

## 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:                                       | -                           |
| Solubility(ies)   | -                           |
| Partition coefficient: n-octanol/water:                 | -                           |
| Auto-ignition temperature (°C):                         | -                           |
| Decomposition temperature (°C):                         | -                           |
| Viscosity (mm <sup>2</sup> /sek):                       | -                           |
| Explosive properties:                                   | -                           |
| Oxidising properties:                                   | -                           |

### 9.2. Other information

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

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## SECTION 10: Stability and reactivity

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### 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

Product decomposes in fire conditions or when heated to high temperatures, and toxic gases such as CO<sub>x</sub> may be released.

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## SECTION 11: Toxicological information

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### 11.1. Information on toxicological effects

| Substance | Route of exposure | Species | Test      | Result                    |
|-----------|-------------------|---------|-----------|---------------------------|
| Bronopol  | Oral              | Rat     | LD50      | 254 - 354 mg/kg bw        |
| Bronopol  | Inhalation        | Rat     | LC50 / 4h | 588 mg/m <sup>3</sup> air |
| Bronopol  | Dermal            | Rat     | LD50      | 2 000 mg/kg bw            |

Symptoms:

**Inhalation:** The product does not release hazardous vapours.

**Skin contact:** May irritate the skin.

**Eye contact:** May cause eye irritation.

**Ingestion:** Ingestion may cause nausea, discomfort and possibly vomiting.

**Long term effects:**

None known.

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## SECTION 12: Ecological information

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### 12.1. Toxicity

| Substance | Test duration | Species | Test | Result         |
|-----------|---------------|---------|------|----------------|
| Bronopol  | 48 h          | Daphnia | LC50 | 1.4 mg/L       |
| Bronopol  | 72 h          | Algae   | EC50 | 250 - 370 µg/L |

### 12.2. Persistence and degradability

| Substance | Biodegradability | Test      | Result               |
|-----------|------------------|-----------|----------------------|
| Bronopol  | Yes              | OECD 301B | 70-80% after 28 days |

### 12.3. Bioaccumulative potential

| Substance | Potential bioaccumulation | LogPow     | BCF |
|-----------|---------------------------|------------|-----|
| Bronopol  | No                        | -0,34-0,22 | -   |

#### **12.4. Mobility in soil**

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

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

#### **12.6. Other adverse effects**

The product contains a small amount of a substance that is harmful to aquatic organisms, with long-term effects.

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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 – empty and uncleaned packaging can be disposed off with daily refuse collection. Disposal of larger quantities: Contact the local authorities.

##### **EWC Code**

16 05 09

#### **Specific labelling**

-

#### **Contaminated packaging:**

Uncleaned 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 rail according to ADR/RID.

#### **14.1 -14.4.**

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#### **14.5. Environmental hazards**

-

#### **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**

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#### **Restrictions for application:**

-

#### **Demands for specific education:**

-

#### **Additional labelling:**

-

#### **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:**

#### **Sources:**

EC regulation 1907/2006 (REACH).

Directive 2000/532/EC.

EC Regulation 1272/2008 (CLP).

EH40/2005 WELs (United Kingdom (UK), 8/2007).

#### **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.

H400 - Very toxic to aquatic life.

H412 - Harmful to aquatic life with long lasting effects.

#### **Other**

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

Section 1-16.

#### **This material safety data sheet replaces version:**

1.0

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