

# Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 08/04/2015

Reviewed on 08/04/2015

## 1 Identification

- **Product identifier**

- **Trade name: BronzClay**

- **Relevant identified uses of the substance or mixture and uses advised against:**

BRONZclay can be pinched, rolled, sculpted, cut or manipulated. Then fire it in a firing pan filled with activated carbon and the binder burns away, leaving a solid, pure bronze object. It can be used to create jewelry, jewelry components, or custom-crafted specialized tools.

- **Product description**

A metal clay with bronze particles in a non-toxic binder that, once fired creates a piece of bronze.

- **Details of the supplier of the safety data sheet:**

- **Manufacturer/Supplier:**

Rio Grande  
7500 Bluewater Road NW  
Albuquerque, NM 87121  
Phone: 1-800-545-6566  
Fax: 1-800-965-2329  
www.RioGrande.com

## 2 Hazard(s) identification

- **Classification of the substance or mixture:**

Aquatic Chronic 4 H413 May cause long lasting harmful effects to aquatic life.

- **Label elements:**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:** Non-Regulated Material

- **Signal word:** Non-Regulated Material

- **Hazard statements:**

May cause long lasting harmful effects to aquatic life.

- **Precautionary statements:**

Avoid release to the environment.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Unknown acute toxicity:**

85.8 percent of the mixture consists of ingredient(s) of unknown toxicity.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

- **Hazard(s) not otherwise classified (HNOC):** None known

## \* 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture: consisting of the following components.

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**Trade name: BronzClay**

<b>· Dangerous Components:</b>		
Trade Secret	⚠ STOT SE 3, H335; Aquatic Chronic 4, H413	70-90%
Trade Secret	⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	5-10%

**· Additional information:**

Trade secret made in accordance with paragraph (i) of §1910.1200 of 29 CFR 1910.1200, the OSHA Hazard Communication Standard and U.S. Code of Federal Regulations.

## 4 First-aid measures

**· Description of first aid measures:**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**  
No further relevant information available.

## 5 Fire-fighting measures

**· Extinguishing media:**

**· Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**· Special hazards arising from the substance or mixture:** No further relevant information available.

**· Advice for firefighters:**

**· Protective equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

## 6 Accidental release measures

**· Personal precautions, protective equipment and emergency procedures:** Not required.

**· Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

**· Methods and material for containment and cleaning up:**

Dispose of the collected material according to regulations.

**· Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

**· Handling**

**· Precautions for safe handling:** No special precautions are necessary if used correctly.

**· Information about protection against explosions and fires:** No special measures required.

**· Conditions for safe storage, including any incompatibilities:**

**· Storage**

**· Requirements to be met by storerooms and receptacles:** No special requirements.

**· Information about storage in one common storage facility:** Not required.

**· Further information about storage conditions:** None.

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- **Specific end use(s):** No further relevant information available.

### \* 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**

#### · **Components with occupational exposure limits:**

**Trade Secret**

PEL	Long-term value: 1* 0.1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
REL	Long-term value: 1* 0.1** mg/m <sup>3</sup> as Cu *dusts and mists **fume
TLV	Long-term value: 1* 0.2** mg/m <sup>3</sup> *dusts and mists; **fume; as Cu

**Trade Secret**

PEL	Long-term value: 2 mg/m <sup>3</sup> metal
REL	Long-term value: 2 mg/m <sup>3</sup>
TLV	Long-term value: 2 mg/m <sup>3</sup> metal

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **Protection of hands:** Not required.
- **Material of gloves:** Not required.
- **Penetration time of glove material:** Not applicable.
- **Eye protection:** Not required.

### \* 9 Physical and chemical properties

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

##### · **General Information**

##### · **Appearance:**

**Form:** Semi-soft clay

**Color:** Brown

· **Odor:** Odorless

· **Odor threshold:** Not determined.

· **pH-value:** Not applicable.

##### · **Change in condition**

**Melting point/Melting range:** Not determined.

**Boiling point/Boiling range:** 100 °C (212 °F)

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not determined.

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- **Ignition temperature:**
  - **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - **Lower:** 0.0 Vol %
  - **Upper:** 0.0 Vol %
- **Vapor pressure @ 20 °C (68 °F):** 23 hPa (17 mm Hg)
- **Density:**
  - **Relative density:** Not determined.
  - **Vapor density:** Not applicable.
  - **Evaporation rate:** Not applicable.
- **Solubility in / Miscibility with:**
  - **Water:** Insoluble.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - **Dynamic:** Not applicable.
  - **Kinematic:** Not applicable.
- **Solvent content:**
  - **Organic solvents:** 1.4 %
- **Other information:** No further relevant information available.

**10 Stability and reactivity**

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

**\*11 Toxicological information**

- **Information on toxicological effects:**
  - **Acute toxicity:**
  - **Primary irritant effect:**
  - **On the skin:** No irritating effect.
  - **On the eye:** No irritating effect.
- **Additional toxicological information:**
- **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

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· <b>OSHA-Ca (Occupational Safety &amp; Health Administration):</b>
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None of the ingredients are listed.
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* <b>12 Ecological information</b>
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- **Toxicity:**

- **Aquatic toxicity:**

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

<b>Trade Secret</b>
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EC50   0.04-0.05 mg/l (Water flea)
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- **Persistence and degradability:** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential:** No further relevant information available.

- **Mobility in soil:** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment:**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects:** No further relevant information available.

* <b>13 Disposal considerations</b>
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- **Waste treatment methods:**

- **Recommendation:**

Observe all federal, state and local environmental regulations when disposing of this material.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

* <b>14 Transport information</b>
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- **UN-Number:**

- **DOT, ADR, ADN, IMDG, IATA**

Non-Regulated Material

- **UN proper shipping name:**

- **DOT, ADR, ADN, IMDG, IATA**

Non-Regulated Material

- **Transport hazard class(es):**

- **DOT, ADR, ADN, IMDG, IATA**

- **Class:**

Non-Regulated Material

- **Packing group:**

- **DOT, ADR, IMDG, IATA**

Non-Regulated Material

- **Environmental hazards:**

Not applicable.

- **Special precautions for user:**

Not applicable.

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

Not applicable.

- **UN "Model Regulation":**

Non-Regulated Material

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**Trade name: BronzClay****\* 15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

· <b>Section 355 (extremely hazardous substances):</b>
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None of the ingredients are listed.
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· <b>Section 313 (Specific toxic chemical listings):</b>
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Trade Secret
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· <b>TSCA (Toxic Substances Control Act):</b>
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All ingredients are listed.
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· <b>California Proposition 65:</b>
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· <b>Chemicals known to cause cancer:</b>
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None of the ingredients are listed.
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· <b>Chemicals known to cause reproductive toxicity for females:</b>
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None of the ingredients are listed.
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· <b>Chemicals known to cause reproductive toxicity for males:</b>
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None of the ingredients are listed.
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· <b>Chemicals known to cause developmental toxicity:</b>
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None of the ingredients are listed.
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· <b>Carcinogenic categories:</b>
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· <b>EPA (Environmental Protection Agency):</b>
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Trade Secret	D
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· <b>TLV (Threshold Limit Value established by ACGIH):</b>
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None of the ingredients are listed.
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· <b>NIOSH-Ca (National Institute for Occupational Safety and Health):</b>
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None of the ingredients are listed.
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· <b>GHS label elements</b>
-----------------------------

The product is classified and labeled according to the Globally Harmonized System (GHS).
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· <b>Hazard pictograms:</b> Non-Regulated Material
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· <b>Signal word:</b> Non-Regulated Material
--

· <b>Hazard statements:</b>
-----------------------------

May cause long lasting harmful effects to aquatic life.
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· <b>Precautionary statements:</b>
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Avoid release to the environment.
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Dispose of contents/container in accordance with local/regional/national/international regulations.
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· <b>National regulations:</b>
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The product is subject to be classified according with the latest version of the regulations on hazardous substances.
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· <b>State Right to Know:</b>
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	Trade Secret	70-90%
	⚠ STOT SE 3, H335; Aquatic Chronic 4, H413	
CAS: 7732-18-5	Water, distilled water, deionized water	15-35%
	Trade Secret	5-10%
	⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	

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RTECS: MA 8050000	Trade Secret	≤ 2.5%
CAS: 9004-67-5	Methyl Cellulose	≤ 2.5%
Trade Secret		1.42%

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- **Date of preparation / last revision:** 08/04/2015 / 1

- **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A  
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
 Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4

- **\* Data compared to the previous version altered.**

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