

MATERIAL SAFETY DATA SHEET

BRONZE MICA

MSDS

1. PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name: BRONZE MICA
Product Use: Personal Care Formulations
Company Name: Natural Sourcing
Company Address: 341 Christian Street, Oxford, CT 06478, USA
Date Issued: 2/11/2009
Emergency Telephone Number: Chemtrec Tel: (800) 262-8200

2. COMPOSITION/INGREDIENT INFORMATION

Chemical Family:	Inorganic Pigment	
Ingredients:	CAS No:	% by Weight
Mica (mineral)	12001-26-2	58-69
Iron Oxide	1309-37-1	31-39
Titanium Dioxide	13463-67-7	<3

3. HAZARDS IDENTIFICATION

Emergency Overview: May cause respiratory tract, eye and skin irritation.

Routes of Entry Eye contact, Inhalation, Ingestion (not anticipated)

Eye Contact: Irritation (itching, redness) may occur
Skin Contact: May cause mild irritation (itching, redness)
Inhalation: May cause respiratory tract irritation (coughing, wheezing, shortness of breathe)
Ingestion: Not an intended route of exposure. May be hazardous in case of ingestion. Symptoms include gastro intestinal tract upset and diarrhea.
Medical Conditions Aggravated by Exposure: Repeated or prolonged inhalation of any dust particulate may aggravate respiratory medical conditions.

4. FIRST AID MEASURES

Eyes: Remove contacts. Flush with plenty of water for 15 minutes. Get medical attention if irritation persists.

Skin: Remove contaminated clothing and shoes. Wash with soap and water. Seek medical attention if symptoms persist.

Ingestion: If this material is swallowed call a physician immediately. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, seek medical attention.

5. FIRE FIGHTING MEASURES

Flammability of Product: Non-flammable
Extinguishing Media: Water spray, foam, dry chemical or CO2.
Special Firefighting Procedures: Wear self-contained breathing apparatus and full protective clothing.
Unusual Fire & Explosion Hazards: None
Hazard Thermal Decomposition Products: N/A

6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

Methods for Cleaning Up: Scoop spilled material into appropriately labeled containers for proper disposal. Finish cleaning by washing area with water. For large spills, check TLV in Section 8 of MSDS and check with local authorities.
Spill Kit Information: No spill kit required for this material.

7. HANDLING AND STORAGE

Handling

Safe Handling: Avoid generating dust. Avoid breathing dust. Use only with adequate ventilation. Avoid prolonged, contact with skin. Avoid contact with eyes. Keep container closed. Wash thoroughly after handling.

Storage Keep container dry. Keep containers sealed until ready to use.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Eye: Safety glasses
Skin/Body: Gloves & Lab Coats
Respiratory: Use adequate ventilation or NIOSH-approved respiratory devices to prevent inhalation of dust. Use additional appropriate respiratory protection if there is potential to exceed the exposure limits.
Other: Evaluate need based on application.
Personal Protection in Case of Large Spills: Splash goggles, synthetic apron, Gloves, MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

Product Name
MICA (mineral)

Exposure Limits
ACGIH: (US, 1994)
TWA: 3 mg/m³
OSHA: (US, 1989)
TWA: 3 mg/m³ 8 hour(s)
ACGIH TLV: (US, 1/2004)
TWA: 3 mg/m³ 8 hour(s) Form: All forms

IRON OXIDE

NIOSH REL: (US, 12/2001)
TWA: 3 mg/m³ 10 hour(s) Form: Respirable Fraction
OSHA PEL: (US, 1989)
TWA: 3 mg/m³ 8 hour(s) Form: Respirable Dust
ACGIH: (US, 1996)
TWA: 5 mg/m³
OSHA: (US, 1989)
Notes: Total
STEL: 10 ppm
ACGIH: (US, 1997)
TWA: 10 mg/m³ 8 hour(s)
NIOSH REL: (US, 12/2001)
TWA: 5 mg/m³ 10 hour(s) Form: Dust & Fumes
OSHA PEL: (US, 8/1997)
TWA: 10 mg/ m³ 8 hour(s) Form: All Forms
OSHA PEL: (US, 1989)
STEL: 10 ppm 15 minute(s) Form: Total Particulates
TWA: 5 mg/ m³ 8 hour(s) Form: Respirable Fraction
TWA: 10 mg/ m³ 8 hour(s) Form: Total Dust
ACGIH TLV: (US, 1/2005)
TWA: 10 mg/m³ 8 hour(s) Form: All forms
TWA: 5 mg/m³ 8 hour(s) Form: Dust & Fumes
ACGIH TLV: (US, 1/2005)
TWA: 10 mg/m³ 8 hour(s) Form: All forms
OSHA PEL: (US, 8/1997)
TWA: 15 mg/ m³ 8 hour(s) Form: Total Dust
OSHA PEL: (US, 3/1989)
TWA: 10 mg/ m³ 8 hour(s) Form: Total Dust
ACGIH TLV: (US, 1/2005)
TWA: 0.05 mg/m³ 8 hour(s) Form: Respirable Fraction
NIOSH REL: (US, 12/2001)
TWA: 0.05 mg/m³ 10 hour(s) Form: All Forms
OSHA PEL: (US, 1989)
TWA: 0.1 mg/ m³ 8 hour(s) Form: Respirable Dust

TITANIUM DIOXIDE

SILICA, CRYSTALLINE

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid, Golden Brown, Lustrous Powder
Color:	Golden Brown
Odor:	Odorless
Molecular Weight:	Mixture
Molecular Formula:	N/A
pH:	4 to 8 (Conc. (% w/w): 10)
Melting Point/Freezing Point:	N/A
Specific Gravity:	N/A
Bulk Density:	N/A
Solubility in Water:	Insoluble

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Decomposition or	N/A

Byproducts:
Hazardous Polymerization: Will Not Occur

11. TOXICOLOGICAL INFORMATION

RTECS Number: Mica (mineral) VV8760000
Iron Oxide NO7400000
Titanium Dioxide XR2275000

Toxicity: Acute oral toxicity (LD50): >16000 mg/kg [Rat] Mica: mineral

Chronic Effects on Humans:
Carcinogenic Effects:
IRON OXIDE: 3 (Not classifiable for human.) by IARC.
Classified A4 (Not classifiable for human or animal.) by ACGIH

TITANIUM DIOXIDE: 3 (Not classifiable for humans.) by IARC
Classified A4 (Not classifiable for human or animal.) by ACGIH

SILICA, CRYSTALLINE: Group 1 by IARC, NTP and NIOSH.
Group 2 by ACGIH (suspected for human).
Mutagenic Effects: Not available
Teratogenic Effects: Not available
Developmental Toxicity: Not available

The substance is toxic to lungs, upper respiratory tract, skin, eye, lens or cornea. Repeated or prolonged exposure to the substance can produce target organ damage.

Acute Effects on Humans: May cause skin, eye and respiratory irritation.

Irritancy: Draize Test: Not available

Sensitization: Not Available

Toxicity to Reproductive System: Not Available

Teratogenic Effects: Not Available

Mutagenic Effects: Not Available

12. ECOLOGICAL INFORMATION

Toxicity of the Products of Biodegradation: Not available

13. DISPOSAL CONSIDERATIONS

EPA Waste Number: Non-hazardous chemical waste
Treatment: Dispose of according to all federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT: Not regulated
TDG: Not regulated
IMO/IMDG: Not regulated
ICAO/IATA: Not regulated

15. REGULATORY INFORMATION

US Federal Regulations: This product or its components are listed on or compliant with the TSCA inventory.

SARA 302/304/311/312 extremely hazardous substances: No products were found

SARA 302/304 emergency planning and notification: No products were found

SARA 302/304/311/312 hazardous chemicals: MICA (Mineral), IRON OXIDE, TITANIUM DIOXIDE

SARA 311/312 MSDS distribution: chemical inventory – hazard identification: MICA (mineral): Immediate (Acute) Health Hazard; IRON OXIDE: Delayed (Chronic) Health Hazard; TITANIUM DIOXIDE: Immediate (Acute) Health Hazard

SARA 313 Form R Reporting Requirements: No products were found.

SARA 313 Supplier Notification: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada):

Not controlled under WHMIS (Canada)
This product or its components are listed on or compliant with the DSL/NDL.

International Regulations:

EINECS:

MICA (mineral)	3101276
IRON OXIDE	215-168-2
TITANIUM DIOXIDE	236-675-5

DSCL (EEC):

This product is not classified according to the EU regulations.

International Lists:

This product or its components are compliant with the following international lists:
Australia (NICNAS), CHINA, Japan (MITI), Korea (TCCL), Philippines (RA6969)

State Regulations:

Pennsylvania RTK: IRON OXIDE (environmental hazard, generic environmental hazard); TITANIUM DIOXIDE: (generic environmental hazard)

Massachusetts RTK: MICA (mineral); IRON OXIDE; TITANIUM DIOXIDE

New Jersey: MICA (mineral); IRON OXIDE; TITANIUM DIOXIDE

California Prop 65: The State of California had found silica, crystalline (airborne particles of respirable size) to cause cancer, which would require a warning under the statute.

16. ADDITIONAL INFORMATION

HMIS (USA): Health: 1 Flammability: 0 Physical Hazard: 0 Personal Protection: E

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers.