

**SECTION**

PRODUCT NAME: **402RU Raw Umber** CAS# **12713-03-0**  
 PRODUCT DESCRIPTION: Greenish-Brown Powder  
 CHEMICAL FAMILY: Inorganic Pigments  
 REVISION DATE: 08/31/06 PRINT DATE: 08/31/06 PRINT TIME:  
 20:48

**SECTION II - HAZARDOUS MATERIAL IDENTIFICATION**

<u>Hazard</u>	<u>CAS #</u>	<u>WT/Wt % Less Than</u>
CRYSTALLINE SILICA, QUARTZ (TOTAL) ACGIH TLV: *0.025 MG/M3 (TWA); OSHA PEL: ** (TWA); *Respirable limits for particles < 10 um AD. ** PEL-TWA 10 mg/m3 / +2	14808-60-7	1.0 - 1.5
MAGNESITE OSHA PEL: *5 MG/M3 (TWA); *Respirable	546-93-0	8 - 11
MAGNESIUM ACGIH TLV: * 2.0 MG/M3 (TWA); OSHA PEL: ** 20 MPPCF (TWA);	14807-96-6	10 - 12
NON-HAZARDOUS ACGIH TLV: N/A (TWA); OSHA PEL: N/A (TWA);		22 - 26
IRON OXIDE FE2O3 ACGIH TLV: 5 MG/M3 (R) (TWA); OSHA PEL: 10 MG/M3 (F) (TWA);	1309-37-1	50 - 55

(R) = Respirable particles  
 (F) = Fumes Under normal conditions of use of this pigment, fumes as Fe2O3 are not encountered-----  
 . Fume conditions are encountered in such uses as welding or smelting.

NUISANCE DUST - This material is considered a Nuisance Dust. Please also observe the following exposure limits for this material:

OSHA - PEL = 15 mg/m3 (Total Dust) 5 mg/m3 (Respirable Dust)

APPEARANCE: SPECIFIC GRAVITY: TAP DENSITY: SOLUBILITY (H2O) COLOR  
 PH  
 BOILING POINT MELTING POINT ODOR  
 VOLATILE, %

**SECTION III -**

POWDER  
 3.0 g/cc 0.7 g/cc INSOLUBLE BROWN  
 7.5 N/A N/A NONE N/A

**PHYSICAL DATA**

## SECTION IV: FIRE AND EXPLOSION

(Continued)

PRODUCT NAME: **402RU Raw Umber** CAS# **12713-03-0**  
REVISION DATE: 08/31/06 PRINT DATE: 08/31/06 PRINT TIME:  
20:48

FLASH POINT: None  
FLAMMABLE LIMIT: None Applicable.  
EXTINGUISHING MEDIA: Dry Chemical, Foam, or CO2. A water mist, fog or spray can be used to control dusting and cool the material.  
FIRE FIGHTING PROTECTION: Firefighters should wear self-contained breathing apparatus and full protective clothing.  
UNUSUAL FIRE OR EXPLOSION HAZARDS: This material is a very fine dust, avoid the use of high pressure water, which could spread burning material and create hazardous dust conditions.

## SECTION V: REACTIVITY DATA

STABILITY: Stable under normal conditions.  
POTENTIAL CONDITIONS FOR REACTIONS: None  
POLYMERIZATION: None will occur  
INCOMPATIBILITY: Strong Oxidizers, such as Chlorates, Bromates, and Nitrates. ADDITIONAL INCOMPATIBILITY: This material contains Synthetic Iron Oxide which is incompatible with Hydrazine, Calcium Hypochlorite, Performic Acid and Bromine Pent a fluoride.  
HAZARDOUS DECOMPOSITION PRODUCTS: None

## SECTION VI: HEALTH HAZARD DATA

RISK SUMMARY: Eye & Skin contact may cause irritation. Prolonged inhalation at excessive dust levels may cause damage to the lungs and respiratory tract.  
ADDITIONAL RISK SUMMARY: This material contains crystalline silica, either in the form of quartz, cristobalite and/or tridimite, an IARC probable carcinogen. Long-Term repeated exposure to excessive levels of crystalline silica dust may cause silicosis, a progressive and sometimes fatal lung disease.  
PRIMARY ENTRY ROUTES: Inhalation, ingestion, and/or eye contact.  
ACUTE EFFECTS: May cause minor eye, skin, and/or respiratory tract irritations. May irritate pre-existing respiratory diseases such as asthma.  
CHRONIC EFFECTS: Prolonged inhalation at excessive dust levels may cause damage to the lungs and/or respiratory tract.  
EYE CONTACT: Flush thoroughly with large amounts of water. Get medical attention if irritation persists.  
SKIN CONTACT: Wash with mild soap and water. Remove severely contaminated clothing and clean before reuse. Seek medical attention in the unlikely event that irritation occurs. INHALATION: Remove to fresh air and get medical help for any breathing difficulties. INGESTION: Rinse mouth with water, give subject liquids to drink and do not induce vomiting. Seek medical assistance if any problems arise.

## SECTION VII: SPILLS, LEAKS, & DISPOSAL PROCEDURES

SPILLS & LEAKS: Vacuum or scoop up spilled material and dispose of in an appropriate waste container. Misting with water or absorbent dust control products may help to keep airborne dust levels at a minimum. Provide proper ventilation and personal protection equipment for use during cleanup.

WASTE DISPOSAL: Waste material can be buried in an approved landfill in accordance with Federal, State, and Local environmental regulations. According to 40 CFR, Part 261 of the Resource, Conservation, and Recovery Act (RCRA), this product is not classified as a hazardous material.

(Continued)

Page

PRODUCT NAME: **402RU Raw Umber** CAS# **12713-03-0**  
REVISION DATE: 08/31/06 PRINT DATE: 08/31/06 PRINT TIME:  
20:48

SPECIAL HANDLING INFORMATION: Provide adequate ventilation when handling this material, material is apt to dust. Material may become slippery when wet.

#### **SECTION VIII: PROTECTION EQUIPMENT**

RESPIRATOR TYPE: NIOSH approved dust respirator suggested. Approved dust respirators are required when dust exceeds recommended TLV.

EYE PROTECTION: Safety glasses with side shields or goggles are suggested. GLOVES: Cloth, leather, rubber, or plastic gloves suggested.

OTHER SUGGESTED PROTECTION EQUIPMENT: Provide an adequate exhaust system that is filtered, to avoid contaminating the environment, and that meets the TLV requirements in the work area. Eye wash stations, sinks and showers should be available.

#### **SECTION IX: STORAGE REQUIREMENTS**

STORAGE TEMPERATURE: MIN: AMBIENT / MAX: <

300 Degrees F. AVERAGE SHELF LIFE: Unlimited

SPECIAL SENSITIVITY(to heat, light, moisture): HEAT - Storage at temperatures above 300 degrees F may cause the black iron oxide component in this product to oxidize, generating heat. This may cause surrounding combustibles to ignite. PRECAUTIONS TO BE TAKEN IN HANDLING

AND STORAGE: Store in a dry place at an ambient temperature and away from food and beverage. Keep material in closed containers. Avoid unnecessary contact; Wash thoroughly after handling; [FOR INDUSTRIAL USES ONLY].

#### **SECTION X: SHIPPING INFORMATION**

D.O.T. SHIPPING NAME: Not applicable

TECHNICAL SHIPPING NAME: Inorganic

Pigment D.O.T. HAZARDOUS

CLASSIFICATION: Non-regulated. D.O.T.

LABEL REQUIRED: No.

FREIGHT CLASSIFICATION: Iron Oxide, NOI.

#### **SECTION XI: SUBSTANCE GOVERNMENTAL REGISTRY**

TSCA (United States) Listed

EINECS (European Community) Listed

DSL (Canada)

Listed

SARA Title III Section 313: Not Listed

REASONS FOR ISSUE: Compliance with 29 CFR, Part 1910.1200.

LIMITATIONS: The data and recommendations made in this document are based on our own research and the research of others, and are believed to be accurate.

---

**HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS)**

Hazard Rating:

4=Severe

Health: 1

3=Serious

Flammability: 0

2=Moderate

Reactivity: 0

1=Slight

Personal Protection: E (glasses,gloves,dust respirator)

0=Minimal

---