

MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name: R&R[®] Noble[™] Jewelry Investment
Product Number:

Manufacturer: Ransom & Randolph
Address: 3535 Briarfield Boulevard
Maumee, Ohio 43537, United States of America
Information Telephone Number: 419-865-9497
Emergency Telephone Number: 419-865-9497

Product Use: Jewelry Investment

Date of Last Revision: August 1 21, 2007

SECTION 2 COMPOSITION INFORMATION ON INGREDIENTS

Ingredient	CAS No./EINECS No.	Percent	EC Substance Classification (67/548/EEC)
Crystalline Silica Quartz	14808-60-7 / 238-878-4	Less than 50%	Xn R48/20
Crystalline Silica Cristobalite	14464-46-1 / 238-455-4	Greater than 50 %	Xn R48/20

See Section 16 for further information on EU Classification.

SECTION 3 HAZARDS IDENTIFICATION

Emergency Overview: May cause eye and skin irritation. Ingestion may cause gastrointestinal disturbances with irritation, nausea, vomiting and diarrhea. Inhalation of dust may cause mucous membrane and respiratory irritation. Prolonged overexposure to respirable crystalline silica may cause lung disease (silicosis) and increase the risk of lung cancer. Risk of cancer depends on duration and level of exposure.

EU Preparation Classification (1999/45/EC): Harmful (Xn) R48/20

SECTION 4 FIRST AID MEASURES

Eye Contact: Flush eyes with large quantities of water for 15 minutes, holding the eyelids apart. Get medical attention if irritation develops and persists.

Skin Contact: Wash skin with soap and water after use. Get medical attention if irritation occurs or persists.

Ingestion: If swallowed, drink 1 or 2 glasses of water to dilute. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

Inhalation: Remove victim to fresh air. If irritation or other symptoms persist, get medical attention.

SECTION 5 FIRE FIGHTING PROCEDURES

Extinguishing Media: Use media appropriate to the surrounding fire.

Firefighting Procedures: Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus in fires involving chemicals.

Unusual Fire/Explosion Hazards: None known.
Known or Anticipated Hazardous Products of Combustion: None known.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Wear appropriate protective clothing as described in Section 8. Collect using dustless method (HEPA vacuum or wet method) and place in appropriate container for use. Do not use compressed air. Report releases as required by local, state and federal authorities.

Personal Precautions: Avoid contact with eyes and skin. Do not breathe dust.

Environmental Precautions: None known.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact with the eyes and skin. Do not breathe dust. Wear eye protection, protective clothing and equipment as described in Section 8. Use with adequate ventilation and proper dust collection methods to keep exposure level below occupational exposure limits. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

Storage: Store in a cool, dry, well ventilated area away from incompatible materials. Protect from physical damage.

SECTION 8 EXPOSURE CONTROL / PERSONAL PROTECTION

Occupational Exposure Limits:

Crystalline Silica, Quartz	10 mg/m ³ TWA PEL (respirable fraction) % Silica + 2 0.025 mg/m ³ TWA TLV (respirable fraction) 0.3 mg/m ³ TWA UK WEL 0.15 mg/m ³ TWA MAK
Crystalline Silica, Cristobalite	0.025 mg/m ³ TWA ACGIH TLV (respirable fraction) 10 mg/m ³ TWA PEL (respirable fraction) 2(% Silica + 2)

Engineering Controls: Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits.

Personal Protective Equipment:

Eye Protection: Safety glasses or goggles.

Skin Protection: Wear rubber or other impervious gloves to avoid contact.

Respiratory Protection: If the exposure limits are exceeded, an approved particulate respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with applicable regulations and good industrial hygiene practice.

Other Protective Clothing or Equipment: Impervious clothing as needed to avoid contamination of personal clothing.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: White colored free flowing powder sand with little to no odor.

Boiling Point: Not available

Freezing Point: Not available

Solubility in Water: 3 %

Melting Point: Not available

Specific Gravity: 2.3

pH: Not Applicable for a dry powder - pH of a 9 percent (by weight) water solution after two

Vapor Pressure (mmHg): Not available
Evaporation Rate: None
% Volatile by Volume: Not available
Flammable Limits in Air:
LEL: Not applicable
UEL: Not applicable

minutes can be approximately 2.
Vapor Density: Not applicable
Viscosity: Not applicable
Flashpoint: Not flammable
Autoignition Temperature: Not applicable

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid:

Incompatibility with Other Materials: Hazardous Decomposition Products: Crystalline silica will dissolve in hydrofluoric acid and produce silicone tetrafluoride. Hazardous Polymerization: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Potential Health Effects:

Eyes: Contact may cause irritation and possible injury.

Skin: May cause irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: Inhalation of dust may cause irritation to the nose, throat and upper respiratory tract with coughing and shortness of breath.

Chronic Health Effects: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. Prolonged or repeated skin contact may cause dermatitis.

Carcinogenicity: Crystalline silica quartz and cristobalite are listed as "Carcinogenic to Humans" (Group 1) by IARC and "Known to be a Human Carcinogen" by NTP.

Medical Conditions Aggravated by Exposure: Individuals with pre-existing skin and respiratory disorders may be at increased risk from exposure.

Acute Toxicity Data:

Crystalline Silica (as Quartz) Oral Rat LD50 - >22,500 mg/kg.

Crystalline Silica (as Cristobalite) No data available

SECTION 12 ECOLOGICAL INFORMATION

Crystalline Silica (as Quartz) 72 hr LC50 carp: >10,000 mg/L

Crystalline Silica (as Cristobalite) No data available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in accordance with federal, state, and local regulations.

SECTION 14 TRANSPORT INFORMATION

DOT Shipping Name: Not Regulated

DOT Hazard Class: N/A

UN Number: N/A

DOT Labels Required (49CFR172.101): N/A

IATA Shipping Name: Not Regulated

IATA Hazard Class: N/A

UN Number: N/A

IATA Hazard Labels Required: N/A

IMDG Shipping Name: Not Regulated

IMDG Class: N/A

UN Number: N/A

IMDG Label: N/A

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: [This product is not subject to CERCLA release reporting requirements.](#) Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:

Hazard Category For Section 311/312: Chronic health

Section 313 Toxic Chemicals: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

U.S. STATE REGULATIONS

California Proposition 65: This product contains the following substances known to the State of California to cause cancer: Crystalline Silica as Quartz: less than 50 %, Crystalline Silica as Cristobalite: greater than 50 %.

INTERNATIONAL REGULATIONS:

European Community Labeling:



Harmful

Contains Crystalline Silica (Quartz and Cristobalite)
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
S22 Do not breathe dust.
S38 In case of insufficient ventilation, wear suitable respiratory equipment.

European Inventory of New and Existing Chemicals Substances (EINECS): All of the components in this product are listed on the EINECS inventory.

SECTION 16 OTHER INFORMATION

HMIS Hazard Rating:

Health -1* Fire Hazard - 0 Reactivity - 0

*Chronic Health Hazard

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):

Xn Harmful

R34 Causes burns.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.