

# Ruby Sand Safety Data Sheet



## SECTION 1 – IDENTIFICATION

Product Name: Ruby Sand® – Calcined Clay Filter Media  
Manufacturer: ZEO, Inc., McKinney TX • 972-542-0053  
Use: Filtration media  
Restrictions: Not for human consumption  
Emergency Phone: +1 972-542-0053 (24 hours)

## SECTION 2 – HAZARD(S) IDENTIFICATION

### Classification

Eye Irritation Category 2B (H320)  
STOT SE Category 3 – Respiratory Irritation (H335)

### Signal Word

WARNING

### Pictogram



### Hazard Statements

H320: Causes eye irritation.  
H335: May cause respiratory irritation.  
Contains trace respirable crystalline silica (<1%).  
Effects are due to mechanical irritation from dust.

### Precautionary Statements

Avoid breathing dust. Wear N95 respirator if dust levels are elevated.  
Use local or general ventilation.  
Wear safety glasses during handling.

## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Calcined Clay (CAS 1318-93-0) – 95-100%  
Crystalline Silica (CAS 14808-60-7) – <1% (trace only)

## **SECTION 4 – FIRST AID MEASURES**

Inhalation: Move the person to fresh air. Rinse nose and mouth.

Eyes: Flush with water for several minutes. Remove contact lenses if present.

Skin: Wash with water. No expected irritation.

Ingestion: Rinse mouth with water.

## **SECTION 5 – FIRE-FIGHTING MEASURES**

The product is non-combustible. Packaging may burn.

Use extinguishing media appropriate for the surrounding fire.

Firefighters should wear SCBA if exposure to smoke is likely.

## **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

Avoid generating airborne dust. Sweep or vacuum gently.

Avoid dry sweeping if large dust clouds may form—lightly moisten if needed.

## **SECTION 7 – HANDLING AND STORAGE**

Avoid creating dust. Handle with adequate ventilation.

Store dry and protect from moisture.

Keep bags sealed until use.

## **SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

OSHA PEL (nuisance dust): 15 mg/m<sup>3</sup> total, 5 mg/m<sup>3</sup> respirable.

Engineering Controls: Local exhaust recommended during handling.

PPE: Safety glasses required; N95 respirator if dusty.

## **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Red/brown granular mineral

Odor: None

Bulk Density: 55–60 lb/ft<sup>3</sup>

Solubility: Insoluble in water

Melting Point: >1000°C

## **SECTION 10 – STABILITY AND REACTIVITY**

Stable mineral under normal use conditions.

Avoid strong acids; may cause aluminosilicate reaction.

No hazardous decomposition products expected.

No hazardous polymerization expected.

## **SECTION 11 – TOXICOLOGICAL INFORMATION**

Inhalation of dust may cause temporary mechanical irritation.

Trace respirable silica may cause long-term lung effects if inhaled chronically.

No evidence of toxicity from calcined clay at typical exposure levels.

No acute oral or dermal toxicity expected.

## **SECTION 12 – ECOLOGICAL INFORMATION**

Inert mineral. Not harmful to soil, aquatics, or organisms.

Does not bioaccumulate.

## **SECTION 13 – DISPOSAL CONSIDERATIONS**

Dispose as non-hazardous mineral waste.

Avoid generating airborne dust during disposal.

## **SECTION 14 – TRANSPORT INFORMATION**

Not regulated as a hazardous material by DOT.

## **SECTION 15 – REGULATORY INFORMATION**

TSCA: Listed

California Proposition 65: Respirable crystalline silica (trace)

## **SECTION 16 – OTHER INFORMATION**

Prepared per OSHA 1910.1200 App D

Prepared by ZEO, Inc.

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