

# Material Safety Data Sheet

Tam Ceramics, Inc.  
 4511 Hyde Park Blvd.  
 P.O. Box 0067  
 Niagara Falls, NY 14305-0067 U.S.A.

**Product:** ZINC ZIRCONIUM SILICATE  
**Internal ID:** 51427

**MSDS No:** TAM CER / 51427  
**Date:** May, 1991

National Paint and Coatings Association  
 Hazardous Material Identification System

HEALTH HAZARD	0 - Minimal
FLAMMABILITY HAZARD	0 - Minimal
REACTIVITY HAZARD	0 - Minimal
PERSONAL PROTECTION	TO BE SUPPLIED BY USER DEPENDING ON USE CONDITIONS.

## SECTION I. MATERIAL IDENTIFICATION

**Trade/Material Name:** ZINC ZIRCONIUM SILICATE

**Description:** Double Silicate

**Other Designations:** Zinc Zirconium Silicate

**CAS:** 56902-79-5

**Manufacturer:** Tam Ceramics, Inc

**Phone:** (716) 278-9400

## SECTION II. INGREDIENTS AND HAZARDS

Ingredient Name:	CAS Number:	Percent:	Exposure Limits:
Zircon (zirconium silicate)	14940-68-2	65 - 70	PEL (OSHA), TLV (ACGIH) For zirconium compounds (as Zr), the OSHA 8-hr TWA and ACGIH TLV-TWA is 5 mg/m <sup>3</sup>
Staurolite	12182-56-8	0.5	
Titanium and ferrous minerals		<0.5	
Quartz	14808-60-7	20 - 30	For quartz (crystalline silica), the TWA OSHA-PEL and ACGIH-TLV is 0.1 mg/m <sup>3</sup>
Zinc Oxide	1314-13-2	25 - 30	OSHA transitional limits: TWA=15 mg/m <sup>3</sup> . OSHA final limits: 10 mg/m <sup>3</sup> . (total dust) ACGIH TLV-TWA: 10 mg/m <sup>3</sup>



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### SECTION V. REACTIVITY DATA

Material is stable Hazardous polymerization will not occur

Chemical incompatibilities: none known

Conditions to avoid: avoid creation of respirable dust

Hazardous decomposition Products: none known

### SECTION VI. HEALTH HAZARD INFORMATION

This product is not considered a carcinogen by IARC, NTP, OSHA, or AGCIH. Crystalline silica is listed by the IARC as probably carcinogenic (2A)

Summary of risks: see below

#### First aid:

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**Skin contact:** This material is not hazardous by skin contact, however thorough cleansing of the skin after use is advisable.

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Ingestion:** This compound is not hazardous by ingestion. However, if symptoms occur, call a physician.

This product, as shipped, may contain particles in the respirable size range. If broken down to respirable size during use, the particles may be harmful to the respiratory system when inhaled. This product contains trace quantities of naturally occurring uranium and thorium. Overexposure by inhalation of respirable dusts containing uranium and thorium may cause lung cancer. This product contains low levels of quartz, up to 0.5%. Dust released during normal handling can cause eye and respiratory irritation. Prolonged breathing of excessive concentrations of dust from this product may cause lung damage. This product contains crystalline silica which has been classified as a probable cause of cancer. IARC has classified crystalline silica as probably carcinogenic for humans (2A).

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The information provided in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Component percentages are typical analyses based on historical production performance. Tam Ceramics does not make any expressed or implied warranty that future production will continue to possess these typical properties.