



## SAFETY DATA SHEET

### 105 Amorphous Micronized White Silicon Dioxide Pozzolan

#### Section 1 – Product and Company Identification

**Tradenames:** 105 Amorphous Micronized White Silicon Dioxide Pozzolan, 105 AWS, 105 WS.  
**Product Uses:** Pozzolan for cement, mortar, concrete, stucco, faux stone and related products.

**Manufacturer:** R-E-D Industrial Products  
**Address:** 4 Village Park Dr.  
 Grove City PA 16127  
 United States

**Emergency Phone Number:** 877-733-2281  
**Technical Information:** 877-733-2281  
**Fax Number:** 877-733-2281  
**Website:** [www.redindustrialproducts.com](http://www.redindustrialproducts.com)

#### Section 2 – Hazard(s) Identification

**Emergency Overview:** Not considered hazardous. Stable and non-flammable under normal industrial conditions.

**Primary Routes of Entry:** Inhalation, ingestion, skin absorption.

**Signs and Symptoms of Exposure:** Eye, skin, or respiratory tract irritation.

**Acute:** Dust may irritate eyes, skin, respiratory tract, mucous membranes. Dust hazard should not occur under normal use.

**Chronic:** None known.

HMIS and NFPA Hazard Rating:	Category	HMIS	NFPA
	Acute Health (0-4)	0/1	0/1
	Flammability (0-4)	0	0
	Reactivity (0-4)	0	0

**HMIS Personal Protection:** To be supplied by user depending upon use.

**NFPA Unusual Hazards:** None.

#### Section 3 – Composition / Information on Ingredients

Ingredients	Formula	Composition	OSHA PEL	ACGIH TLV
Silica Dioxide <sup>(1)</sup>	SiO <sub>2</sub>	90% to 95%	Not Listed <sup>(2)</sup>	Not Listed <sup>(2)</sup>
Alumina	Al <sub>2</sub> O <sub>3</sub>	0% to 1%		
Iron Oxide	Fe <sub>2</sub> O <sub>3</sub>	0% to 1%		
Calcium Oxide	CaO	0% to 1%		
Total Alkali	n/a	4% to 7%		

**Notes:** (1) Exposure to this product may be covered by OSHA inert or nuisance dust limits of 15 mg/m<sup>3</sup> for total dust and 5 mg/m<sup>3</sup> for respirable portion. Silica dioxide is completely amorphous, does not contain crystalline silica. Where required, the applicable CAS number is 65997-17-3 for a "Glass Oxide."

## Section 4 – First-Aid Measures

**Medical Conditions Generally Aggravated by Exposure:** May aggravate existing pulmonary condition if high dust situation is created. Dusting conditions should not occur under normal use.

**Eye Contact:** Immediately flush eyes with water to remove dust particles. If irritation develops, seek medical attention.

**Skin Contact:** Wash skin with soap and water. If irritation develops, seek medical attention.

**Inhalation:** Immediately remove affected person to fresh air. If irritation develops, seek medical attention.

**Ingestion:** Rinse mouth out with water. Induce vomiting if significant quantities ingested. Seek medical attention.

## Section 5 – Fire-Fighting Measures

**Fire and Explosion Hazard Overview:** This material is considered non-flammable and non-combustible.

**Auto-Ignition Temperature:** N/A

**Flash Point and Method Used:** N/A

**LEL/UEL:** N/A

**Unusual Fire and Explosion Hazards:** None

**Special Fire Fighting Procedures:** No special procedures required.

**Extinguisher Media:** No special media required.

N/A = Not Applicable

## Section 6 – Accidental Release Measures

**Steps to be Taken if Material is Accidentally Spilled or Released:** Avoid creating airborne dust. Pick up with shovel or mechanical equipment. Wet methods and vacuuming may be used on spills.

## Section 7 – Handling and Storage

**Precautions to be Taken:** Keep material dry in storage. No special handling required. Avoid creating airborne dust. Not an electrical conductor.

**Other Precautions and/or Special Hazards:** None

## Section 8 – Exposure Controls / Personal Protection

**Respiratory Protection:** If airborne dust exposure approaches the TLV or PEL (Section 2) use half-mask or full-face air-purifying respirator equipped with NIOSH or MSHA-approved high efficiency filters for protection against pneumoconiosis-producing dust. An airline respirator may be required where dust levels are extremely high.

**Protective Gloves:** Limit contact with skin. Use rubber or cloth gloves as necessary.

**Eye Protection:** Wear goggles or face shield as appropriate. Avoid contact lenses.

**Ventilation to be Used:** Keep dust levels below PEL. Use general and local exhaust ventilation and dust collection systems to keep dust levels within acceptable limits.

**Other Protective Clothing and Equipment:** None normally required. Wear long sleeves and long pants to reduce skin contact. Use work gloves, goggles and face shield as necessary.

**Hygienic Work Practices:** Do not allow dust to get into eyes, to be inhaled, to be swallowed, or remain on skin if irritation occurs. Practice good personal hygiene. Wash or shower after use. Launder clothes as normal.

## Section 9 – Physical and Chemical Properties

Appearance:	White powder
Upper/lower flammability or explosive limits:	N/A
Odor:	None
Vapor pressure (mm Hg and Temp):	N/A
Odor threshold:	None
Vapor density:	N/A
pH	8.5-9
Specific gravity (H <sub>2</sub> O =1):	2.6
Melting (softening) point:	900 °C
Solubility in water:	Insoluble
Initial boiling point and boiling range:	N/A
Flash point:	N/A
Evaporation rate:	N/A
Flammability (solid, gas):	N/A
Upper/lower flammability or explosive limits:	N/A
Vapor pressure:	N/A
Vapor density (Air = 1):	N/A
Partition coefficient:	N/A
n-octanol/water:	N/A
Auto-ignition temperature:	N/A
Decomposition temperature:	>2000°C
Viscosity:	N/A

N/A = Not Applicable

## Section 10 – Stability and Reactivity

**Stability:** Stable

**Conditions to Avoid:** None known.

**Hazardous Decomposition Products:** Unknown and not suspected.

**Hazardous Polymerization:** Not known to occur.

**Reactivity:** When mixed with cement and concrete products in its intended use, the material reacts in the normal way as a “pozzolan” with the lime and alkalis present to form calcium silicate hydrates. Material is considered inert in polymer and resin systems. Avoid contact with strong acids, reducing agents, and oxidizers.

## Section 11 – Toxicological Information

**Carcinogenicity:** The following list indicates whether or not the indicated agency has listed the product as a carcinogen:

NTP, Not listed; IARC, Not listed; OSHA, Not listed.

**LD50:** Oral (g/kg), Not available; Dermal (g/kg), Not available; Inhalation (ppm, 8hrs), Not available.

## Section 12 – Ecological Information

Considered to be an inert solid waste, and no special precautions should be taken in case it is released or spilled. These products do not contain, nor are manufactured with, Class I or Class II Ozone-Depleting Chemicals (CFCs) identified in the Clean Air Act Amendment, 1990 List of Ozone Depleting Chemicals.

## Sections 13 – Disposal Considerations

Considered non-hazardous per EPA, RCRA 40CFR, Part 261, 1990. Handle as inert bulk material. Material may be disposed of as a non-hazardous solid waste consistent with state, federal and local disposal regulations. Disposal in a sanitary landfill is usually adequate. Material integrated into a cement/concrete products must be disposed of in accordance with applicable requirements for those products where they exist.

## Sections 14 – Transport Information

Not regulated by the Department of Transportation (DOT).

## Section 15 – Regulatory Information

**United States:** (a) EPA Toxic Substances Control Act (TSCA): The applicable CAS number is 65997-17-3, corresponding to "Glass Oxide." All the raw material components of the glass oxide are in the TSCA Inventory. (b) EPA SARA Title III: R-E-D Industrial Products considers these products exempt as they do not meet its health or physical hazards definitions nor contain any SARA 313 chemical ingredients in excess. (c) OSHA Hazard Communication Standard: Subject to the applicable requirements of this regulation. (d) Right to Know Law: Per this SDS revision date, these products are not known to contain chemical ingredients listed by the Pennsylvania, New Jersey or Massachusetts Right to Know Law in excess of amounts requiring reporting on such substances' SDS or labels. (e) California Proposition 65: No ingredient is listed. (f) Clean Air Act: No ingredient is listed

**Canada:** These products are exempt from Canadian Environmental Protection Act (CEPA) reporting on the Domestic Substances Lists. They are also exempt from Workplace Hazardous Materials Information System (WHMIS) labeling & SDS requirements.

**European Economic Committee (EEC) Labeling Classification:** These products do not meet the classification for a "dangerous substance" according to 67/548/EEC and 97/69/EC. The composition has been incorporated in the EINECS under CAS number 65997-17-3 as a glass oxide.

**Japan:** Chemical Substances Control Law: Exempt from this law.

## Section 16 – Other Information

**Disclaimer:** Information herein is based on data considered to be accurate as of date prepared. No warranty or representation, express or implied, is made as to the accuracy or completeness of this data and safety information. No responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, failure to adhere to recommended practices, or from any hazards inherent in the nature of the product

**Date Prepared:** June 11, 2018



**INDUSTRIAL PRODUCTS**

**Product Data Sheet:**

**R-E-D 105 WS Amorphous Micronized White Silicon Dioxide**

R-E-D 105 WS Amorphous Micronized White Silicon Dioxide is a fine amorphous, calcined natural pozzolan powder. R-E-D 105 WS is great for use in applications that require a white colored pozzolan product. Through our specific reclamation process, we have been graciously blessed with a completely environmentally safe and sustainable product.

**Applications:** Concrete, particularly desirable in decorative concrete requiring a white siliceous material.

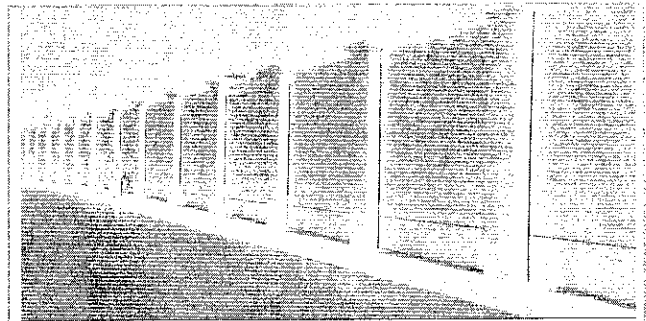
**Packing:** Bulk super-sack, 50 lb. bags, other packaging options are available on request.

**Storage:** Dry storage. Avoid contact with moisture.

**Safety:** Product amorphous. Safety data sheet available on request.

**Production Site:** Upper Sandusky, OH

**Environmental:** Complies with ISO 14001:2004  
Complies with OHSAS 18001:2007  
Complies with R2:2013



**Physical and Chemical Characteristics**

Analysis	Limits		
	Typical	Min	Max
SiO <sub>2</sub> (%)	75.0	65.0	95.0
Fe <sub>2</sub> O <sub>3</sub>	0.5	0.1	1.0
Al <sub>2</sub> O <sub>3</sub> (%)	2.0	0.8	3.0
CaO (%)	4.5	2.0	7.0
Na <sub>2</sub> O (%)	8.0	3.5	11.0
>45μ(%)	10.0	5.0	15.0
Pozzolanic Activity (%)	90	75	120



R-E-D 105 on white printer paper

**Customer Service/Inside Sales:**

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**Serving the Refractory and Mineral Processing Industries!**



**Product Data Sheet:**

**R-E-D 105 WSNP Amorphous Micronized White Silicon Dioxide Pozzolan**

R-E-D 105 WS Amorphous Micronized White Silicon Dioxide Pozzolan is a fine amorphous, calcined natural pozzolan powder. R-E-D 105 WSNP is great for use in applications that require a pure white colored pozzolan product. Even though 105 WSNP is considered a natural pozzolan we try to maintain same high standards of a silica fume. Through our specific reclamation process, we have been graciously blessed with a completely environmentally safe and sustainable product that consistently has a pozzolanic activity index percentage of at least 105% resulting in stronger, more durable concrete, all while improving the world.

**Applications:** concrete, particularly desirable in decorative concrete requiring a white siliceous pozzolan.

**Packing:** Bulk super-sack, 50 lb. bags, other packaging options are available on request.

**Storage:** Dry storage. Avoid contact with moisture.

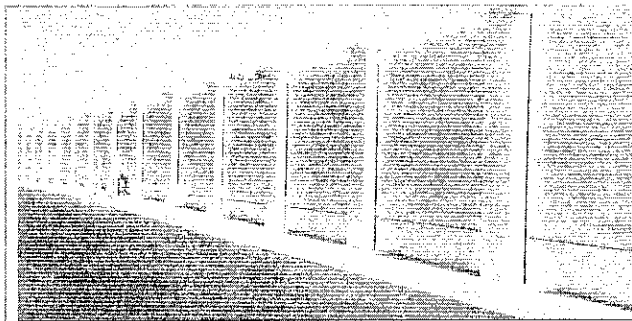
**Safety:** Product amorphous. Safety data sheet available on request.

**Production Site:** Upper Sandusky, OH

**Environmental:** Complies with ISO 14001:2004

Complies with OHSAS 18001:2007

Complies with R2:2013



**Physical and Chemical Characteristics**

Analysis	Limits		
	Typical	Min	Max
SiO <sub>2</sub> (%)	75.0	65.0	90.0
Fe <sub>2</sub> O <sub>3</sub>	0.5	0.1	1.0
Al <sub>2</sub> O <sub>3</sub> (%)	2.0	0.7	3.0
CaO (%)	4.5	2.0	10.0
Na <sub>2</sub> O (%)	8.0	4.0	16.0
>45μ(%)	7.0	2.0	9.50
Pozzolanic Activity (%)	100	75	135



R-E-D 105 on white printer paper

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