# **SAFETY DATA SHEETS**

# This SDS packet was issued with item: 077262686

# The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

077262256 077262678 077262694 077262702 077262710 077262728 077262736 077262744 077262751 077262769 077262777 077262785 077262793 077262801 077262819 077262827



SAF	ETY DATA SHEET				(Revision: 01/25/2017,					
1.	Identification									
Product Type: Phosphate Casting Investment										
	Trade Names:	Ū								
	AccuVest 0	era-Fina	Ceramigold	FastFire 15						
	Formula 1 F	li-Temp	PC 15	PowerCast						
		`i21	V.H.T. Industrial	X-20						
	Resinvest									
	• Company: Whip Mix Corp									
	361 Farmingto		40200							
	Louisville, Ken Emorgonov To		4 40209 umber: (502)-637-145	1						
	Fax Number: (									
	•									
			(U.S. and Canada)	antad)						
2.	Emergencies: International Call: Hazard Identification.	5: 1- /03-32	-3007 (Conect cans act	(epiea)						
۲.	OSHA Hazcom 2012 Classific	ation								
	Health Hazards		Physical Haz							
	Specific Target Organ Toxicity	∕ – Repeat	Not Hazardou	S						
	Exposure Category 1									
	Carcinogen Category 1A									
	Labeling:									
	Danger!									
	A									
	•									
	Hazard Statements:									
May cause cancer if inhaled. Causes damage to lung through prolonged or repeated exposure by inhalation.										
					Precautionary Statements:					
					Obtain special instructions befo					
	Do not handle until all safety pre	ecautions h	ave been read and un	derstood.						
	Do not breathe dust.									
	Wash thoroughly after handling									
Do not eat, drink or smoke when using this product. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention.										
						Get medical attention if you feel	unwell.			
						Store locked up.	or in acces	donoo with loool and m	ational regulations	
	Dispose of contents and contair	ier in accor	uance with local and r	iational regulations.						
3.	Composition/Information on Ingr	redients.								
	Substance	CAS No	•	<u>%</u>						
	Silica, Crystalline, Quartz	14808-6	=	0-75						
	Silica, Crystalline, Cristobalite	14464-4		0-30						
	Zirconium Silicate	14940-6		0-95						
		11740.0		0.00						

Phosphates	Mixture	1-40	
Aluminum Oxide	1344-28-1	0-5	
Graphite	7782-42-5	0-5	
Glass Fibers	65977-17-3	0-2	

# 4. First-Aid Measures.

**Inhalation:** Remove exposed person to fresh air. If irritation or other symptoms persist, get medical attention. **Eyes:** Flush with large quantities of water, holding the eyelids apart. If irritation persists consult a physician.

Skin: No first aid is generally required. Wash skin with soap and water.

**Ingestion:** May cause gastrointestinal discomfort and intestinal blockage. 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.

**Most important symptoms/effects, acute and delayed:** May cause eye irritation. Inhalation of dust may cause mucous membrane and respiratory irritation. When mixed with water, this material hardens and becomes very hot – may cause burns.

Indication of Any Immediate Medical Attention and Special Treatment Needed: Immediate medical attention is required for ingestions.

# 5. Fire-Fighting Measures.

**Suitable (and unsuitable) Extinguishing Media**: Use media appropriate for surrounding fire. Water may cause product to solidify.

**Specific Hazards Arising From the Chemical**: The product does not burn but may decompose producing phosphorus oxides.

**Special Protective Equipment and Precautions for Fire-fighters:** Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus. Cool fire exposed containers with water.

# 6. Accidental Release Measures.

**Personal Precautions, Protective Equipment and Emergency Procedures**: Wear appropriate protective clothing as described in Section 8.

Environmental Hazards: Report releases as required by local and national authorities.

**Methods and Materials for Containment and Cleaning up**: Collect using dustless method (HEPA vacuum or wet method) and place in appropriate container for use. Do not use compressed air.

# 7. Handling and Storage.

**Precautions for Safe Handling:** Avoid contact with eyes. Do not breathe dust. Wear 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.

**Conditions for Safe Storage, including Any Incompatibilities:** Store in a cool, dry, well-ventilated area away from incompatible materials. Protect from physical damage

# 8. Exposure Controls/Personal Protection.

**Occupational Exposure Limits:** 

Silica, Crystalline, Quartz	0.05 mg/m <sup>3</sup> TWA OSHA PEL 0.025 mg/m <sup>3</sup> TWA TLV (respirable fraction)
Silica, Crystalline, Cristobalite	0.025 mg/m <sup>3</sup> TWA OSHA PEL 0.025 mg/m <sup>3</sup> TWA TLV (respirable fraction)
Zirconium Silicate	5 mg/m <sup>3</sup> TWA OSHA PEL
	5 mg/m <sup>3</sup> TWA, 10 STEL ACGIH TLV
Phosphates	5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction)
	15 mg/m <sup>3</sup> TWA OSHA PEL (total dust)
Aluminum Oxide	5 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction)
	15 mg/m <sup>3</sup> TWA OSHA PEL (total dust)
Graphite	15 mppcf TWA OSHA PEL
-	2 mg/m3 TWA ACGIH TLV (respirable)
Glass Fibers	1 f/cc TWA ACGIH TLV (as synthetic vitreous fibers)

**Appropriate engineering controls:** Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits.

**Respiratory protection:** If the exposure limits are exceeded a NIOSH 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 OSHA 1910.134 or other applicable regulations and good industrial hygiene practice.
Skin protection: For prolonged use or in dusty conditions, wear rubber gloves.
Eye protection: Chemical safety goggles if needed to avoid eye contact.
Other: Impervious clothing as needed to avoid contamination of personal clothing.

9. Physical and Chemical Properties. Appearance: Powder, with variety of colors Odor: Odorless.

Odor threshold: Not applicable Melting point/freezing point: Not applicable Flash point: Not applicable Flammability (solid, gas): Not applicable Flammable limits: LEL: Not applicable Vapor pressure: Not applicable Relative density: Not applicable Partition coefficient: n-octanol/water: Not available Decomposition temperature: Not available pH: Not applicableBoiling point: Not applicableEvaporation rate: Not applicable

UEL: Not applicable Vapor density (air = 1): Not applicable Solubility In Water: Not applicable Auto-ignition temperature: Not applicable Viscosity: Not applicable

10. Stability and Reactivity.

Reactivity: None known. Chemical stability: Stable

Possibility of hazardous reactions: None known.

Conditions to avoid: None known.

Incompatible materials: Incompatible with hydrofluoric acid.

Hazardous decomposition products: Crystalline silica will dissolve in hydrofluoric acid and produce silicone tetrafluoride.

# 11. Toxicological Information.

Eyes: Dust may cause mechanical irritation and possible injury.

Skin: Dust may cause irritation.

**Ingestion:** No adverse effects expected for normal, incidental ingestion. Large amounts may cause gastrointestinal blockage and discomfort.

**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 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.

**Carcinogenicity:** Crystalline silica quartz is listed as "Carcinogenic to Humans" (Group 1) by IARC and "Known to be a Human Carcinogen" by NTP. None of the other components of this product are listed as carcinogens by OSHA, IARC or NTP.

# Acute Toxicity Data:

Silica, Crystalline, Quartz: Oral rat LD50 >22,500 mg/kg Silica, Crystalline, Cristobalite: No toxicity data available Zirconium Silicate: No toxicity data available Aluminum Oxide: Oral rat LD50 15900 mg/kg, Inhalation rat LC50 7.6 mg/L/1 hr Graphite: Oral rat LD50 >2000 mg/kg, Inhalation rat LC50 >2000 mg/m3 (no deaths occurred) Phosphates: No toxicity data available Glass Fibers: Oral rat LD50 >2000 mg/kg

# 12. Ecological Data. Ecotoxicity:

Silica, Crystalline, Quartz: 72 hr LC50 Carp - >10,000 mg/L Silica, Crystalline, Cristobalite: No data available Zirconium Silicate: No data available Aluminum Oxide: 96 hr LC50 Pimephales promelas 35 mg/L Graphite: 96 hr EC50 Danio rerio >100 mg/L, 48 hr EC50 daphnia magna >100 mg/L, 72 hr EC50 Pseudokirchnerella subcapitata >100 mg/L Phosphates: No data available Glass Fibers: No data available Persistence and degradability: Biodegradation is not applicable to inorganic substances. Bioaccumulative potential: No data available Mobility in soil: No data available Other adverse effects: Not required.

#### 13. Disposal Considerations.

Dispose in accordance with all national and local regulations.

#### 14. Transport Information.

US DOT: Not Regulated

Canada TDG: Not Regulated

IMDG: Not Regulated

IATA/ICAO: Not Regulated

Special precautions: Not applicable Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form

### 15. Regulatory Information.

Safety, health, and environmental regulations specific for the product in question

## US Regulations

SARA Section 313 (40 CFR 372): This product contains the following toxic chemical(s) subject to reporting requirements of SARA 313: None

## SARA Section 311/312 (40 CFR 370) Hazard Categories: Chronic Health

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):** This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

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

**California:** This product contains the following substances known to the state of California to cause cancer and/or reproductive toxicity:

Silica, Crystalline, Quartz	14808-60-7	0-80%	Cancer
Titanium Dioxide	13463-67-7	<0.1%	Cancer
Uranium (as radionuclides)	7440-61-1	<300 ppm	Cancer
Thorium as radionuclides)	7440-29-1	<160 ppm	Cancer

#### **International Regulations**

Canadian Environmental Protection Act: Not determined

16. Other Information.

• HMIS Rating: Health 1*	Flammability 0	Reactivity 0	Other 0
Hazard: 4-Severe: 3-	Serious: 2-Mode	erate: 1-Sliaht	t: 0-Minimum

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Date: 01/25/2017	Date: