



# Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.

# U.S. Department of Labor

Occupational Safety and Health Administration  
(Non-Mandatory Form)

IDENTITY (As Used on Label and List)  
ARDEX S21

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

## Section - I

Manufacturer's Name ARDEX ENGINEERED CEMENTS	Emergency Telephone Number (800) 255-3924
Address (Number, Street, City, State and Zip Code)  400 Ardex Park Drive Aliquippa, PA 15001 U.S.A.	Telephone Number for Information (724) 857-6400
	Date Prepared 01/30/04
	Signature of Preparer (Optional)

## Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
50% MAX QUARTZ 14808-60-7	.05MG/M <sup>3</sup>	1MG/M <sup>3</sup>		
40% MAX PORTLAND CEMENT 65997-15-1	10 MG/M <sup>3</sup>		10MG/M <sup>3</sup>	
45% CALCIUM CARBONATE 1317065-3	N/A	30MPPCF		
20% MAX VINYL ACETATE COPOLYMER 24937-78-8	10 MG/M <sup>3</sup>	10 MG/M <sup>3</sup>		

## Section III – Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H <sub>2</sub> O = 1)	1.2
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	LESS THAN 50 G/1000 CM3		
Appearance and Odor	FINE GRAY POWDER		

## Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) NON-FLAMMABLE	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media WILL NOT BURN			
Special Fire Fighting Procedures NONE			
Unusual Fire and Explosion Hazards NONE REQUIRED WITH THIS PRODUCT			

**Section V – Reactivity Data**

Stability	Unstable	<input type="checkbox"/>	Conditions to Avoid
	Stable	<input checked="" type="checkbox"/>	NONE
Incompatibility ( <i>Materials to Avoid</i> ) NONE			
Hazardous Decomposition or Byproducts NONE			
Hazardous Polymerization	May Occur	<input type="checkbox"/>	Conditions to Avoid
	Will Not Occur	<input checked="" type="checkbox"/>	NONE

**Section VI – Health Hazard Data**

Route(s) of Entry	Inhalation? YES	Skin? YES	Ingestion? YES
Health Hazards ( <i>Acute and Chronic</i> ) EXCESSIVE OR LONG-TERM INHALATION MAY CAUSE PNEUMOCONIOSIS (SILICOSIS). MAY CAUSE IRRITATION TO NOSE, THROAT AND RESPIRATORY PASSAGES.			
Carcinogenicity:	NTP? YES	IARC Monographs? YES	OSHA Regulated? N/A
Signs and Symptoms of Exposure EXPOSURE TO SKIN OR EYES MAY CAUSE RASH OR IRRITATION. INHALATION MAY CAUSE COUGH, SHORTNESS OF BREATH, WHEEZING AND REDUCED PULMONARY FUNCTION.			
Medical Conditions Generally Aggravated by Exposure ALLERGIES TO PORTLAND CEMENT OR INDIVIDUALS WITH RESPIRATORY DISEASE OR SUBJECT TO EYE IRRITATION.			
Emergency First Aid Procedures SEEK MEDICAL ATTENTION. INHALATION MAY RESULT IN RESPIRATORY IRRITATION - REMOVE TO FRESH AIR. SKIN - WASH WITH SOAP AND WATER. EYES - FLUSH WITH WATER. INGEST - DILUTE WITH WATER.			

**Section VII – Precautions for Safe Handling and Use**

Steps to Be Taken in Case Material is Released or Spilled COLLECT USING DUSTLESS METHOD (HEPA VACUUM OR WET METHOD). WHERE APPROPRIATE - PROTECTIVE EQUIPMENT – COLLECT FOR DISPOSAL.
Waste Disposal Method DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE/PROVINCIAL AND FEDERAL REGULATIONS.
Precautions to Be Taken in Handling and Storing NONE. STORE IN A COOL, DRY AREA. USE NORMAL PRECAUTIONS AGAINST BAG BREAKAGE. USE GOOD HOUSEKEEPING TO PREVENT DUST ACCUMULATION.
Other Precautions DO NOT BREATHE DUST.

**Section VIII – Control Measures**

Respiratory Protection ( <i>Specify Type</i> ) WEAR A NIOSH/MSHA APPROVED RESPIRATOR.		
Ventilation	Local Exhaust TO CONTROL TO RECOMMENDED P.E.L.	Special NONE
	Mechanical ( <i>General</i> ) NONE	Other NONE
Protective Gloves RECOMMENDED	Eye Protection RECOMMENDED	
Other Protective Clothing or Equipment AS APPROPRIATE FOR WORK ENVIRONMENT. COVERALLS, APRON, AND BOOTS TO PREVENT CONTACT		
Work/Hygienic Practices: DUSTY CLOTHING SHOULD BE LAUNDERED BEFORE REUSE. WHEN FINISHED SHOWER WITH SOAP AND WATER TO REMOVE DUST.		