



U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)

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.

IDENTITY (As Used on Label and List) ARDEX X9	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.
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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 ³	0.025MG/M ³		
40% MAX PORTLAND CEMENT 65997-15-1	10 MG/M ³	10MG/M ³		
45% CALCIUM CARBONATE 1317065-3	N/A	30MPPCF		
20% MAX VINYL ACETATE COPOLYMER 24937-78-8	10 MG/M ³	10 MG/M ³		

Section III – Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ 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 CM ³		
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?	Skin?	Ingestion?
	YES	YES	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. THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.			
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	YES	YES	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	Special
	TO CONTROL TO RECOMMENDED P.E.L.	NONE
	Mechanical (<i>General</i>)	Other
	NONE	NONE
Protective Gloves	Eye Protection	
RECOMMENDED	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.		