



## 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 CONCRETE GUARD – GRAY

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

Address (Number, Street, City, State and Zip Code)

400 Ardex Park Drive  
Aliquippa, PA 15001  
U.S.A.

Emergency Telephone Number

CHEM-TEL (800) 255-3924

Telephone Number for Information  
(724) 203-5000

Date Prepared

10/04/2001

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)
2% MAX 2-(2-ETHOXYETHOXY) ETHANOL; CAS#111-90-0	NOT ESTABLISHED	LC50 >200MG/CU.M/HR		
5% MAX 2-BUTOXY ETHANOL; CAS#111-76-2	25 PPM	20 PPM	LC50> 450PPM (4 HRS)	
2% MAX 2-(2-METHOXYETHOXY) ETHANOL; CAS#111-77-3	80MG/CU.M	30 PPM	NONE	
20% MAX TITANIUM DIOXIDE; CAS#13463-67-7	15MG/CU.M	10MG/CU.M	LC50>6.82MG/L (4HRS)	

### Section III – Physical/Chemical Characteristics

Boiling Range	212°-325° F	Specific Gravity (H <sub>2</sub> O = 1)	1.20
Vapor Pressure (mm Hg)	17	Melting Point	NA
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	.02

Solubility in Water

IS SOLUBLE

Appearance and Odor

Gray liquid – MILD ODOR

### Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
N/A	N/A	1.4	360.0

Extinguishing Media

WATER; FOG; DRY CHEMICAL; CARBON DIOXIDE; FOAM

Special Fire Fighting Procedures

FIRE FIGHTERS SHOULD FULL PROTECTIVE EQUIPMENT TO INCLUDE SELF-CONTAINED BREATHING APPARATUS. WATER SPRAY MAY BE INEFFECTIVE; FOG NOZZLES ARE PREFERABLE. SPILL WILL MAKE SURFACE SLIPPERY – EXERCISE DUE CAUTION.

Unusual Fire and Explosion Hazards

WATER MAY BE USED TO COOL CLOSED CONTAINERS NOT INVOLVED IN THE FIRE ITSELF TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTO-IGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT. PRODUCT IN OPEN CONTAINERS MAY SPATTER WHEN TEMPERATURE EXCEEDS BOILING POINT OF WATER.

**Section V – Reactivity Data**

Stability	Unstable	<input type="checkbox"/>	Conditions to Avoid
	Stable	<input checked="" type="checkbox"/>	HIGH TEMPERATURES

Incompatibility (*Materials to Avoid*)  
NONE KNOWN.

Hazardous Decomposition or Byproducts  
HEATING TO DECOMPOSITION, AS IN A FIRE OR WELDING, MAY PRODUCE HAZARDOUS FUMES. FUMES MAY CONTAIN CARBON MONOXIDE, CARBON DIOXIDE AND OXIDES OF NITROGEN.

Hazardous Polymerization	May Occur	<input type="checkbox"/>	Conditions to Avoid
	Will Not Occur	<input checked="" type="checkbox"/>	WILL NOT OCCUR.

**Section VI – Health Hazard Data**

Route(s) of Entry	Inhalation? YES	Skin? YES	Ingestion? NO
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Health Hazards (*Acute and Chronic*)  
NONE RECOGNIZED

Carcinogenicity:	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
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Signs and Symptoms of Exposure EYE CONTACT: PRIMARY IRRITANT. INHALATION: VAPOR OR SPRAY MIST MAY IRRITATE RESPIRATORY MUCOUS MEMBRANES, CAUSING HEADACHES AND NAUSEA.

Medical Conditions Generally Aggravated by Exposure  
RESPIRATORY AILMENTS

Emergency First Aid Procedures  
EYES: FLUSH WITH LARGE AMOUNTS OF LUKEWARM WATER FOR A LEAST 15 MINUTES. CONSULT A PHYSICIAN. INHALATION: REMOVE VICTIM TO FRESH AIR AND ADMINISTER OXYGEN, IF AVAILABLE, TO RESTORE BREATHING. IF SPONTANEOUS VOMITING OCCURS, TAKE STEPS TO PREVENT ASPIRATION INTO THE LUNGS. INGESTION: IF CONSCIOUS, GIVE VICTIM 2 GLASSES OF WATER TO DILUTE. DO NOT INDUCE VOMITING. CONTACT NEAREST POISON CONTROL CENTER. IF FURTHER PROBLEMS DEVELOP, SEEK MEDICAL ATTENTION. SKIN: REMOVE FROM SKIN WITH SOAP AND WATER. PROMPTLY REMOVE WET, CONTAMINATED, CLOTHING. IF IRRITATION PERSISTS, CONSULT PHYSICIAN.

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

Steps to Be Taken in Case Material is Released or Spilled  
VENTILATE USING LOCAL EXHAUST. AVOID UNNECESSARY SKIN CONTACT. STOP AND/OR CONTAIN SPILL IF IT CAN BE DONE SAFELY. AVOID DISCHARGING ONTO DRAINS, SEWERS OR WATERWAYS. PERSONNEL SHOULD WEAR PROTECTION TO PREVENT SKIN AND EYE CONTACT. CONTAIN SPILL AND NOTIFY APPROPRIATE COMPANY PERSONNEL. KEEP UNNECESSARY PERSONS OUT OF AREA AND AWAY FROM SPILL. LIME OR SODA ASH MAY BE USED TO AID IN THE NEUTRALIZATION OF THIS PRODUCT. USE ABSORBANT MATERIAL SUCH AS CLAY OR DIATOMACEOUS EARTH TO CLEAN UP.

Waste Disposal Method  
CHECK COMPANY'S POLICY ON DISPOSAL. DISPOSAL SHOULD BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS REGARDING THE DISPOSITION OF INDUSTRIAL WASTE.

Precautions to Be Taken in Handling and Storing  
TRANSFER ONLY TO APPROVED CONTAINERS WITH COMPLETE & APPROPRIATE LABELING. DO NOT STORE ABOVE 120 °F. STORE IN CLEAN DRY AREA IN PROPERLY LABELED CONTAINERS. READ COMPLETE DIRECTIONS AND PRECAUTIONS BEFORE USE. NO SMOKING SIGNS SHOULD BE POSTED AND ENFORCED. KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN.

Other Precautions  
ALL CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER OR RETURNED TO A DRUM RECONDITIONER.

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**Section VIII – Control Measures**

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Respiratory Protection (*Specify Type*)

NONE USUALLY REQUIRED. IN A FIRE OR CONFINED AREA, USE NIOSH APPROVED, SELF-CONTAINED BREATHING APPARATUS.

Ventilation	Local Exhaust PREFERABLE	Special N/A
	Mechanical ( <i>General</i> ) SUFFICIENT VENTILATION IN VOLUME AND PATTERN SHOULD BE PROVIDED TO KEEP AIR CONTAMINATION BELOW CURRENT APPLICABLE OSHA STANDARDS	Other N/A
Protective Gloves NONE REQUIRED	Eye Protection SAFETY GOGGLES WITH IMPERFORATED SIDE SHIELDS OR FACE SHIELD RECOMMENDED.	

Other Protective Clothing or Equipment

WHERE EXPOSURES ARE BELOW THE PEL, NO RESPIRATORY PROTECTION IS REQUIRED. WHERE EXPOSURES EXCEED THE PEL, USE RESPIRATOR APPROVED BY NIOSH OR FULL PROTECTIVE SUIT WITH AIR SUPPLY APPROPRIATE FOR THE MATERIAL AND LEVEL OF EXPOSURE.

Work/Hygienic Practices

USE ONLY WITH ADEQUATE VENTILATION. AVOID BREATHING VAPOR OR MIST. AVOID CONTACT WITH SKIN AND EYES. WASH HANDS AFTER USING WITH SOAP AND WATER.

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