SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : ARDEX X 7 R[™] GRAY

Product ID No. : 70040611 Trade Name/Synonyms : X 7 R Gray

Material Use : Rapid Set, Flexible Thin Set Mortar

Uses Advised Against : Use only as recommended in the product's Technical Data Sheet.

Manufacturer's name and address: Supplier's name and address:

ARDEX L.P.

400 Ardex Park Dr.

Aliquippa, PA 15001 USA

Information Telephone No. : (888) 512-7339 or (724) 203-5000 Website Address : http://www.ardexamericas.com

24 Hr Emergency Telephone # : CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect)

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification per 29 CFR 1910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015)

Skin corrosion/irritation, Category 1

Serious eye damage/eye irritation, Category 1

Carcinogenicity, Category 1

Specific target organ toxicity, repeated exposure, Category 1.

Refer to Manufacturer

GHS Pictograms



Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage.

May cause cancer by inhalation.

Causes damage to lungs through prolonged or repeated inhalation.

Precautionary Statements

Obtain special instructions before use. (See Section 7.) Do not handle until all safety precautions have been read and understood. Do not breathe dust. Use only in a well-ventilated area. Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection. Wash contaminated clothing before reuse. Keep container tightly closed. Protect from sunlight. Store locked up. Dispose of contents / container in accordance with federal, state, and local laws. Do not allow product to enter drains.

Hazards Not Otherwise Classified

None

% With Unknown Acute Toxicity : Up to 93% by weight of this product consists of ingredients with unknown acute

toxicity.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS#	% (by weight)
Crystalline silica, quartz	14808-60-7	30 – 60
Portland cement	65997-15-1	30 – 60
Calcium aluminate cement	65997-16-2	10 – 30
VA/E copolymer	24937-78-8	1 - 5
Amorphous fumed silica	69012-64-2	1 – 5

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

SECTION 4 – FIRST AID MEASURES

General : Call a Poison Center or doctor if you feel unwell.

Inhalation : Remove person to fresh air and keep at rest in a position comfortable for

breathing. Get medical attention.

Skin contact : Remove contaminated clothing. Flush affected skin with water. If irritation or rash

occurs, seek medical attention/advice.

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Get medical attention.

Ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or

doctor/physician if you feel unwell.

Notes for Physician : Treat symptomatically.

Signs and symptoms of short-term (acute) exposure

Inhalation : Symptoms may include coughing and shortness of breath.

Skin : Symptoms may include redness and itching. Contact with wet material, or moist

areas of skin, causes skin burns. Skin thickening, cracking, or fissuring may occur.

Eyes : Direct contact may strongly irritate or burn the eyes. Could cause blindness.

Ingestion : Symptoms such as gastric pain, nausea, vomiting, and diarrhea may occur.

Effects of long-term (chronic) exposure

: Prolonged inhalation may cause adverse lung effects with symptoms including coughing and shortness of breath. Repeated or prolonged inhalation of fine dusts may cause severe scarring of the lungs, a disease called silicosis, and alveolar proteinosis (lower lung disease). Silicosis has been linked to kidney damage and autoimmune disorders.

Indication of need for immediate medical attention or special treatment

: Difficulty breathing persists after removing the person to fresh air.

Any burn to the skin.

Any exposure to the eye which causes irritation.

Ingestion.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide, dry chemical powder, foam.

Unsuitable extinguishing media : Water. Water will damage the paper bags. Contact of the product with water will

form caustic alkaline material.

Hazardous combustion products: Calcium oxide, calcium oxalate, acetic acid, formic acid, formaldehydes, carbon

monoxide, and carbon dioxide.

Special fire-fighting procedures/equipment

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move

containers from fire area if safe to do so.

Environmental precautions : Do not allow material to enter drains or contaminate ground water system.

Fire hazards/conditions of flammability

: Product is not flammable. Packaging is paper and plastic.

Flammability classification (OSHA 29 CFR 1910.1200, WHMIS 2015)

: Not flammable

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions : Restrict access to area until completion of clean-up. All persons dealing with

clean-up should wear the appropriate chemically protective equipment.

Protective equipment : Refer to Section 8 for additional information on acceptable personal protective

equipment.

Emergency Procedures : This product does not contain chemicals requiring EPA notification for spills. In

case of a chemical spill, call the emergency telephone number listed in Section 1.

US CERCLA Reportable quantity (RQ): None reported.

Methods and materials for containment and cleaning up

: Ventilate area of release. Stop spill or leak at source if safely possible. Contain material, preventing it from entering sewer lines or waterways. Using HEPA vacuum, or other dustless methods, gather up spilled material and place in suitable container for later disposal (see Section 13). Notify the appropriate

authorities as required.

Prohibited materials : Avoid adding water. This product becomes alkaline when wet.

Environmental precautions : Do not allow product to enter drains or waterways. Do not allow material to

contaminate ground water system.

Reference to other sections : See Section 13 for disposal information.

SECTION 7 – HANDLING AND STORAGE

Special instructions : Use ventilation to control levels of dust in the work area.

Safe handling procedures : Wear chemically resistant protective equipment during handling. Use in a

well-ventilated area. Training the workers on the potential health hazards associated with product dust is important. Secondary inhalation exposures could occur when cleaning equipment, or when removing or laundering the clothing. Do not breathe dust. Avoid and control operations which create dust. Keep containers tightly closed when not in use. Wash hands and exposed skin thoroughly after

handling.

Storage requirements : Store in a cool, dry place. Store away from heat and open flame. Avoid storing in

direct sunlight. Store in original container. Keep tightly closed when not in use.

Store locked up. Keep out of reach of children.

Incompatible materials : Keep away from strong acids and oxidizing agents. (See Section 10.)

Special packaging materials : Always keep in containers made of the same materials as the supply container.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits : No exposure limits have been established for the product itself. Below are

exposure limits for the components in the product.

Threshold Limit Values	CAS#	ACGIH TLV		OSH.	A PEL
for the Ingredients	0.10	TWA	STEL	PEL	STEL
Calcium aluminate cement	65997-16-2	1 mg/m³ (as Aluminum	N/Av	N/Av	N/Av

		metal and insoluble compounds)			
Portland cement	65997-15-1	1 mg/m³ (respirable, no asbestos and < 1% crystalline silica)	N/Av	15 mg/m³ (Total dust); 5 mg/m³ (respirable)	N/Av
VA/E copolymer	24937-78-8	10 mg/m ³ (Total dust); 3 mg/m ³ (respirable)	N/Av	15 mg/m ³ (Total dust); 5 mg/m ³ (respirable)	N/Av
Crystalline silica, quartz	14808-60-7	0.025 mg/m ³ (respirable fraction)	N/Av	0.05 mg/m ³ (respirable) (final rule limit)	N/Av
Amorphous fumed silica	69012-64-2	2 mg/m ³ (respirable)	N/Av	N/Av	N/Av

Engineering Controls : Use general ventilation in combination with local exhaust ventilation with HEPA

filtration to maintain air concentrations below recommended exposure limits. Ventilation should effectively remove and prevent buildup of any dust generated

from the handling of this product.

Personal Protective Equipment

Eye / face protection : Safety glasses or chemical goggles must be worn when using this product.

Additionally, a face shield is recommended if splashing is possible.

Skin protection : Wear chemical resistant protective clothing and impervious gloves. Glove

materials such as nitrile rubber or Viton (fluorocarbon rubber) are recommended.

Body protection: Where extensive exposure to product is possible, use resistant coveralls, apron

and boots to prevent contact.

Respiratory protection : If work process generates excessive quantities of dust, or exposures in excess of

any PEL, wear an appropriate particulate respirator (dust mask). Mask should be

rated at N-95 or higher.

Site safety equipment : An eyewash station and safety shower should be made available in the immediate

working area.

General hygiene considerations: Avoid contact with eyes, skin and clothing. Do not breathe dust. Do not eat, drink

or smoke when using this product. Clean all equipment and clothing at end of each work shift. This product contains crystalline silica. Comply with all

requirements within OSHA Standard 29 CFR § 1926.1153 - Respirable crystalline

silica for Construction.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state : solid **Appearance** : gray powder Odor Odor threshold : N/Av : No odor pН 10 - 12Specific gravity 2.7 - 3.1**Boiling point** Coefficient of water/oil distribution : N/Av : N/Ap Melting/Freezing point : N/Av Solubility in water < 55 g/LVapor pressure (mm Hg @ 20°C / 68°F) : N/Av Evaporation rate (n-Butyl acetate = 1) : N/Ap : N/Av : N/Av Vapor density (Air = 1) Volatiles (% by weight)

Volatile organic compounds (VOCs) : 0 g/L

Particle size : Not flammable : N/Av Flammability classification Lower flammable limit (% by vol) : Not available Flash point : N/Av Flash point method : N/Av Upper flammable limit (% by vol) : Not available **Auto-ignition temperature** N/Av **Decomposition temperature** : Not available Viscosity : Not available **Oxidizing properties** : Not available

Explosion data: Sensitivity to mechanical impact / static discharge

: Not expected to be sensitive to mechanical impact or static discharge.

SECTION 10 – REACTIVITY AND STABILITY INFORMATION

Reactivity : Contact with water may cause hydration and formation of caustic calcium

hydroxide.

Stability : Stable under the recommended storage and handling conditions prescribed.

Hazardous reactions : Hazardous polymerization does not occur.

Conditions to avoid : High temperatures.

Materials to avoid and incompatibility

: Oxidizing agents. Strong acids.

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of exposure : Inhalation: YES Skin Absorption: NO Skin and Eyes: Yes Ingestion: YES

Symptoms of exposure : See Section 4.

Calculated Acute Toxicity Estimates for the Product

Inhalation : Not Available

Oral : Not Available
Dermal : Not Available

Toxicological data : There are insufficient data for estimating the product's acute toxicity. See below

for individual ingredient acute toxicity data.

Acute Toxicity Parameters	CAS#	LC50, Inhalation	LD50, Oral	LD50, Dermal
for the Ingredients		mg/L, Rat, 4 hr	mg/kg, rat	mg/kg, rabbit
Calcium aluminate cement	65997-16-2	N/Av	N/Av	N/Av
Portland cement	65997-15-1	N/Av	N/Av	N/Av
VA/E copolymer	24937-78-8	N/Av	> 1,000	N/Av
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	N/Av
Amorphous fumed silica	69012-64-2	N/Av	>22,500	N/Av

Skin corrosion or irritation : Causes skin corrosion when wet.

Serious eye damage / eye irritation

: Causes eye burns. May cause blindness.

Respiratory or skin sensitization: Portland cement may cause an allergic skin reaction, in hypersensitive individuals

possibly due to trace amounts of chromium.

Germ cell mutagenicity : None known.

Carcinogenic status : This product contains Crystalline silica. Crystalline silica (respirable size) is

classified as carcinogenic by inhalation by IARC (Group 1), ACGIH (Group A2), NTP (Group 1) and OSHA (OSHA Select carcinogen). No other components are

listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive toxicity : None known.

Specific Target Organ Toxicity, Single Exposure

: May cause respiratory irritation.

Specific Target Organ Toxicity, Repeated Exposure

: May cause lung damage (silicosis) upon repeated or prolonged exposure. Silicosis may be accompanied by complications such as kidney damage and autoimmune

disorders.

Aspiration hazard : None known.

Additional information : N/Av

SECTION 12 – ECOLOGICAL INFORMATION

Environmental effects : The product should not be allowed to enter drains or water courses or be

deposited where it can affect ground or surface waters.

Ecotoxicological : No data is available on the product itself.

Ecotoxicity: No data available.Biodegradability: No data available.Bioaccumulative potential:No data available.Mobility in soil: No data available.

PBT and vPvB assessment

: No data available.

Other adverse effects : No data available.

SECTION 13 – DISPOSAL CONSIDERATION

Handling for disposal : Handle waste according to recommendations in Section 7.

Methods of disposal : Dispose in accordance with all applicable federal, state, provincial and local

regulations. Contact your local, state, provincial or federal environmental agency

for specific rules.

Packaging : Handle contaminated packaging in the same manner as the product.

RCRA : For disposal of unused or waste material, check with local, state and federal

environmental agencies.

SECTION 14 – TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	This product is not regulated according to Canadian TDG regulations.	None	None	None
TDG Additional Information	None				
49 CFR/DOT	None	This product is not regulated according to US DOT regulations.	None	None	None
49 CFR/DOT Additional Information	None				

Not regulated by IMDG. Not regulated by IATA. Not a Marine Pollutant.

SECTION 15 – REGULATORY INFORMATION

Canadian Information:

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all information required by the HPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL).

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Immediate (Acute) health hazard

Chronic Health Hazard.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above *de minimus* concentrations.

U.S. State Right to Know Laws

California Proposition 65: See product label for information regarding Proposition 65.

Other State Right to Know Laws:

Ingredient on State RTK Law?	CAS#	CA	MA	MN	NJ	NY	PA	RI
Portland cement	65997-15-1	No	YES	No	YES	No	YES	YES
Crystalline silica, quartz	14808-60-7	No	YES	YES	YES	No	YES	YES
Amorphous fumed silica	69012-64-2	No	YES	No	YES	No	No	No

SECTION 16 – OTHER INFORMATION

HMIS Rating : *- Chronic Hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: *3 Flammability 0 Physical Hazard 1 PPE:

Gloves, safety glasses

Legend : ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of

1980

CFR: Code of Federal Regulations
DOT: Department of Transportation
DSL: Domestic Substances List
EPA: Environmental Protection Agency
GHS: Globally Harmonized System
HEPA: High Efficiency Particulate Air [filter]
HMIS: Hazardous Materials Information System

HPR: Hazardous Products Regulations

IARC: International Agency for Research on Cancer

Inh: Inhalation

mg/L: milligrams per Liter (of air)

mg/kg: milligrams per Kilogram (of body mass)

N/Av: Not Available N/Ap: Not Applicable

NFPA: National Fire Protection Association

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumlative, and/or Toxic

PEL: Permissible exposure limit PPE: Personal Protection Equipment

RCRA: Resource Conservation and Recovery Act SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values

TSCA: Toxic Substance Control Act TWA: Time Weighted Average

vPvB: (very) Persistent, (very) Bioaccumulative and/or Toxic WHMIS: Workplace Hazardous Materials Identification System

Disclaimer of Liability

The Information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user determines the adequacy of the safety procedures employed during the use of this product. No warranty of any kind is given or implied. ARDEX L.P. will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

Prepared By: ARDEX L.P. 400 Ardex Park Drive Aliquippa, PA, U.S.A. 15001

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Visit our Website: http://www.ardexamericas.com

Revision date: : 08-Jul-2019

End of Document

SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : ARDEX X 7 R[™] WHITE

Product ID No. : 70069501 Trade Name/Synonyms : X 7 R White

Material Use : Rapid Set, Flexible Thin Set Mortar

Uses Advised Against : Use only as recommended in the product's Technical Data Sheet.

Manufacturer's name and address: Supplier's name and address:

ARDEX L.P.

Refer to Manufacturer

400 Ardex Park Dr.

Aliquippa, PA 15001 USA

Information Telephone No. : (888) 512-7339 or (724) 203-5000 Website Address : http://www.ardexamericas.com

24 Hr Emergency Telephone # : CHEM-TEL: 1-800-255-3924 OR 1-813-248-0585 (call collect)

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification per 29 CFR 1910.1200 (OSHA HCS 2012) and HPR (WHMIS 2015)

Skin corrosion/irritation, Category 1

Serious eye damage/eye irritation, Category 1

Carcinogenicity, Category 1

Specific target organ toxicity, repeated exposure, Category 1.

GHS Pictograms



Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage.

May cause cancer by inhalation.

Causes damage to lungs through prolonged or repeated inhalation.

Precautionary Statements

Obtain special instructions before use. (See Section 7.) Do not handle until all safety precautions have been read and understood. Do not breathe dust. Use only in a well-ventilated area. Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection. Wash contaminated clothing before reuse. Keep container tightly closed. Protect from sunlight. Store locked up. Dispose of contents / container in accordance with federal, state, and local laws. Do not allow product to enter drains.

Hazards Not Otherwise Classified

None

% With Unknown Acute Toxicity: Up to 93% by weight of this product consists of ingredients with unknown acute

toxicity.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS#	% (by weight)
Crystalline silica, quartz	14808-60-7	30 – 60
Portland cement	65997-15-1	30 – 60
Calcium aluminate cement	65997-16-2	10 – 30
VA/E copolymer	24937-78-8	1 - 5
Amorphous fumed silica	69012-64-2	1 – 5

The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.

SECTION 4 – FIRST AID MEASURES

General : Call a Poison Center or doctor if you feel unwell.

Inhalation : Remove person to fresh air and keep at rest in a position comfortable for

breathing. Get medical attention.

Skin contact : Remove contaminated clothing. Flush affected skin with water. If irritation or rash

occurs, seek medical attention/advice.

Eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Get medical attention.

Ingestion : Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or

doctor/physician if you feel unwell.

Notes for Physician : Treat symptomatically.

Signs and symptoms of short-term (acute) exposure

Inhalation : Symptoms may include coughing and shortness of breath.

Skin : Symptoms may include redness and itching. Contact with wet material, or moist

areas of skin, causes skin burns. Skin thickening, cracking, or fissuring may occur.

Eyes : Direct contact may strongly irritate or burn the eyes. Could cause blindness.

Ingestion : Symptoms such as gastric pain, nausea, vomiting, and diarrhea may occur.

Effects of long-term (chronic) exposure

: Prolonged inhalation may cause adverse lung effects with symptoms including coughing and shortness of breath. Repeated or prolonged inhalation of fine dusts may cause severe scarring of the lungs, a disease called silicosis, and alveolar proteinosis (lower lung disease). Silicosis has been linked to kidney damage and autoimmune disorders.

Indication of need for immediate medical attention or special treatment

: Difficulty breathing persists after removing the person to fresh air.

Any burn to the skin.

Any exposure to the eye which causes irritation.

Ingestion.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide, dry chemical powder, foam.

Unsuitable extinguishing media : Water. Water will damage the paper bags. Contact of the product with water will

form caustic alkaline material.

Hazardous combustion products: Calcium oxide, calcium oxalate, acetic acid, formic acid, formaldehydes, carbon

monoxide, and carbon dioxide.

Special fire-fighting procedures/equipment

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move

containers from fire area if safe to do so.

Environmental precautions : Do not allow material to enter drains or contaminate ground water system.

Fire hazards/conditions of flammability

: Product is not flammable. Packaging is paper and plastic.

Flammability classification (OSHA 29 CFR 1910.1200, WHMIS 2015)

: Not flammable

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions : Restrict access to area until completion of clean-up. All persons dealing with

clean-up should wear the appropriate chemically protective equipment.

Protective equipment : Refer to Section 8 for additional information on acceptable personal protective

equipment.

Emergency Procedures : This product does not contain chemicals requiring EPA notification for spills. In

case of a chemical spill, call the emergency telephone number listed in Section 1.

US CERCLA Reportable quantity (RQ): None reported.

Methods and materials for containment and cleaning up

: Ventilate area of release. Stop spill or leak at source if safely possible. Contain material, preventing it from entering sewer lines or waterways. Using HEPA vacuum, or other dustless methods, gather up spilled material and place in suitable container for later disposal (see Section 13). Notify the appropriate

authorities as required.

Prohibited materials : Avoid adding water. This product becomes alkaline when wet.

Environmental precautions : Do not allow product to enter drains or waterways. Do not allow material to

contaminate ground water system.

Reference to other sections : See Section 13 for disposal information.

SECTION 7 – HANDLING AND STORAGE

Special instructions : Use ventilation to control levels of dust in the work area.

Safe handling procedures : Wear chemically resistant protective equipment during handling. Use in a

well-ventilated area. Training the workers on the potential health hazards associated with product dust is important. Secondary inhalation exposures could occur when cleaning equipment, or when removing or laundering the clothing. Do not breathe dust. Avoid and control operations which create dust. Keep containers tightly closed when not in use. Wash hands and exposed skin thoroughly after

handling.

Storage requirements : Store in a cool, dry place. Store away from heat and open flame. Avoid storing in

direct sunlight. Store in original container. Keep tightly closed when not in use.

Store locked up. Keep out of reach of children.

Incompatible materials : Keep away from strong acids and oxidizing agents. (See Section 10.)

Special packaging materials : Always keep in containers made of the same materials as the supply container.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible Exposure Limits : No exposure limits have been established for the product itself. Below are

exposure limits for the components in the product.

Threshold Limit Values	CAS#	ACGIH TLV		OSH.	A PEL
for the Ingredients	0.10	TWA	STEL	PEL	STEL
Calcium aluminate cement	65997-16-2	1 mg/m³ (as Aluminum	N/Av	N/Av	N/Av

		metal and insoluble compounds)			
Portland cement	65997-15-1	1 mg/m³ (respirable, no asbestos and < 1% crystalline silica)	N/Av	15 mg/m ³ (Total dust); 5 mg/m ³ (respirable)	N/Av
VA/E copolymer	24937-78-8	10 mg/m ³ (Total dust); 3 mg/m ³ (respirable)	N/Av	15 mg/m ³ (Total dust); 5 mg/m ³ (respirable)	N/Av
Crystalline silica, quartz	14808-60-7	0.025 mg/m ³ (respirable fraction)	N/Av	0.05 mg/m ³ (respirable) (final rule limit)	N/Av
Amorphous fumed silica	69012-64-2	2 mg/m ³ (respirable)	N/Av	N/Av	N/Av

Engineering Controls : Use general ventilation in combination with local exhaust ventilation with HEPA

filtration to maintain air concentrations below recommended exposure limits. Ventilation should effectively remove and prevent buildup of any dust generated

from the handling of this product.

Personal Protective Equipment

Eye / face protection : Safety glasses or chemical goggles must be worn when using this product.

Additionally, a face shield is recommended if splashing is possible.

Skin protection : Wear chemical resistant protective clothing and impervious gloves. Glove

materials such as nitrile rubber or Viton (fluorocarbon rubber) are recommended.

Body protection : Where extensive exposure to product is possible, use resistant coveralls, apron

and boots to prevent contact.

Respiratory protection : If work process generates excessive quantities of dust, or exposures in excess of

any PEL, wear an appropriate particulate respirator (dust mask). Mask should be

rated at N-95 or higher.

Site safety equipment : An eyewash station and safety shower should be made available in the immediate

working area.

General hygiene considerations : Avoid contact with eyes, skin and clothing. Do not breathe dust. Do not eat, drink

or smoke when using this product. Clean all equipment and clothing at end of each work shift. This product contains crystalline silica. Comply with all

requirements within OSHA Standard 29 CFR § 1926.1153 - Respirable crystalline

silica for Construction.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state : solid Appearance : white powder

Odor Odor threshold : N/Av : No odor pН 10 - 12Specific gravity 2.7 - 3.1**Boiling point** Coefficient of water/oil distribution : N/Av : N/Ap Melting/Freezing point : N/Av Solubility in water < 55 g/LVapor pressure (mm Hg @ 20°C / 68°F) : N/Av Evaporation rate (n-Butyl acetate = 1) : N/Ap : N/Av : N/Av Vapor density (Air = 1) Volatiles (% by weight)

 $\textbf{Volatile organic compounds (VOCs)} \quad : \quad 0 \ g/L$

Particle size : Not flammable : N/Av Flammability classification Lower flammable limit (% by vol) : Not available Flash point : N/Av Flash point method : N/Av Upper flammable limit (% by vol) : Not available **Auto-ignition temperature** N/Av **Decomposition temperature** : Not available Viscosity : Not available Oxidizing properties : Not available

Explosion data: Sensitivity to mechanical impact / static discharge

: Not expected to be sensitive to mechanical impact or static discharge.

SECTION 10 – REACTIVITY AND STABILITY INFORMATION

Reactivity : Contact with water may cause hydration and formation of caustic calcium

hydroxide.

: See Section 4.

Stability : Stable under the recommended storage and handling conditions prescribed.

Hazardous reactions : Hazardous polymerization does not occur.

Conditions to avoid : High temperatures.

Materials to avoid and incompatibility

: Oxidizing agents. Strong acids.

Hazardous decomposition products

Symptoms of exposure

: None known, refer to hazardous combustion products in Section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of exposure : Inhalation: YES Skin Absorption: NO Skin and Eyes: Yes Ingestion: YES

Calculated Acute Toxicity Estimates for the Product

Inhalation : Not Available

Oral : Not Available

Dermal : Not Available

Toxicological data : There are insufficient data for estimating the product's acute toxicity. See below

for individual ingredient acute toxicity data.

Acute Toxicity Parameters	CAS#	LC50, Inhalation	LD50, Oral	LD50, Dermal
for the Ingredients		mg/L, Rat, 4 hr	mg/kg, rat	mg/kg, rabbit
Calcium aluminate cement	65997-16-2	N/Av	N/Av	N/Av
Portland cement	65997-15-1	N/Av	N/Av	N/Av
VA/E copolymer	24937-78-8	N/Av	> 1,000	N/Av
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	N/Av
Amorphous fumed silica	69012-64-2	N/Av	>22,500	N/Av

Skin corrosion or irritation : Causes skin corrosion when wet.

Serious eye damage / eye irritation

: Causes eye burns. May cause blindness.

Respiratory or skin sensitization: Portland cement may cause an allergic skin reaction, in hypersensitive individuals

possibly due to trace amounts of chromium.

Germ cell mutagenicity : None known.

Carcinogenic status : This product contains Crystalline silica. Crystalline silica (respirable size) is

classified as carcinogenic by inhalation by IARC (Group 1), ACGIH (Group A2), NTP (Group 1) and OSHA (OSHA Select carcinogen). No other components are

listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive toxicity : None known.

Specific Target Organ Toxicity, Single Exposure

: May cause respiratory irritation.

Specific Target Organ Toxicity, Repeated Exposure

: May cause lung damage (silicosis) upon repeated or prolonged exposure. Silicosis may be accompanied by complications such as kidney damage and autoimmune

disorders.

Aspiration hazard : None known.

Additional information : N/Av

SECTION 12 – ECOLOGICAL INFORMATION

Environmental effects : The product should not be allowed to enter drains or water courses or be

deposited where it can affect ground or surface waters.

Ecotoxicological : No data is available on the product itself.

Ecotoxicity: No data available.Biodegradability: No data available.Bioaccumulative potential:No data available.Mobility in soil: No data available.

PBT and vPvB assessment

: No data available.

Other adverse effects : No data available.

SECTION 13 – DISPOSAL CONSIDERATION

Handling for disposal : Handle waste according to recommendations in Section 7.

Methods of disposal : Dispose in accordance with all applicable federal, state, provincial and local

regulations. Contact your local, state, provincial or federal environmental agency

for specific rules.

Packaging : Handle contaminated packaging in the same manner as the product.

RCRA : For disposal of unused or waste material, check with local, state and federal

environmental agencies.

SECTION 14 – TRANSPORTATION INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	This product is not regulated according to Canadian TDG regulations.	None	None	None
TDG Additional Information	None			•	
49 CFR/DOT	None	This product is not regulated according to US DOT regulations.	None	None	None
49 CFR/DOT Additional Information	None			•	

Not regulated by IMDG. Not regulated by IATA. Not a Marine Pollutant.

SECTION 15 – REGULATORY INFORMATION

Canadian Information:

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR). This SDS contains all information required by the HPR.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on either the Domestic Substances List (DSL) or the Non- Domestic Substances List (NDSL).

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes:

Immediate (Acute) health hazard

Chronic Health Hazard.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above *de minimus* concentrations.

U.S. State Right to Know Laws

California Proposition 65: See product label for information regarding Proposition 65.

Other State Right to Know Laws:

Ingredient on State RTK Law?	CAS#	CA	MA	MN	NJ	NY	PA	RI
Portland cement	65997-15-1	No	YES	No	YES	No	YES	YES
Crystalline silica, quartz	14808-60-7	No	YES	YES	YES	No	YES	YES
Amorphous fumed silica	69012-64-2	No	YES	No	YES	No	No	No

SECTION 16 – OTHER INFORMATION

HMIS Rating : *- Chronic Hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: *3 Flammability 0 Physical Hazard 1 PPE:

Gloves, safety glasses

Legend : ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of

1980

CFR: Code of Federal Regulations
DOT: Department of Transportation
DSL: Domestic Substances List
EPA: Environmental Protection Agency
GHS: Globally Harmonized System
HEPA: High Efficiency Particulate Air [filter]
HMIS: Hazardous Materials Information System

HPR: Hazardous Products Regulations

IARC: International Agency for Research on Cancer

Inh: Inhalation

mg/L: milligrams per Liter (of air)

mg/kg: milligrams per Kilogram (of body mass)

N/Av: Not Available N/Ap: Not Applicable

NFPA: National Fire Protection Association

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PBT: Persistent, Bioaccumlative, and/or Toxic

PEL: Permissible exposure limit PPE: Personal Protection Equipment

RCRA: Resource Conservation and Recovery Act SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values

TSCA: Toxic Substance Control Act TWA: Time Weighted Average

vPvB: (very) Persistent, (very) Bioaccumulative and/or Toxic WHMIS: Workplace Hazardous Materials Identification System

Disclaimer of Liability

The Information presented herein is supplied as a guide to those who handle or use this product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive. The manner and conditions of use and handling may involve other and additional considerations. Safe work practices must be employed when working with any materials. It is important that the end user determines the adequacy of the safety procedures employed during the use of this product. No warranty of any kind is given or implied. ARDEX L.P. will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

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