

Safety Data Sheet

I. Product and Company Identification

PRODUCT: ISO-CRETE 450 SG PART A

MANUFACTURER: LymTal International, Inc.
4150 S. Lapeer Rd. Orion, MI 48359
www.lymtal.com
For Non-Emergency Questions,
Hours 8AM To 4PM Eastern Standard Time
(248) 373-8100

EMERGENCY CONTACT: 24-Hour Chemtrec (800)424-9300
Chemtrec, D.C. Area (800)483-7616

II. Hazards Identification

Classification of the Substance or Mixture:



Resp Sensitizer, CAT 1

Signal Word: **DANGER**

Hazard Statements:

H315	Causes Skin Irritation	Skin Corrosion/Irritation Cat 2
H317	May Cause An Allergic Skin Reaction	Skin Sensitizer, Cat 1
H320	Causes Eye Irritation	Eye Damage/Irritation, Cat 2B
H332	Harmful If Inhaled	Acute Toxicity, Cat 4, Inhale
H334	May Cause Allergy Or Asthma Symptoms Or Breathing Difficulties If Inhaled	Resp Sensitizer, Cat 1A
H335	May Cause Respiratory Irritation	Stot Single Exposure, Cat 3, RTI, NE, CNS

Precautionary Statements:

P102	Keep Out Of Reach Of Children
P103	Read Label Before Use
P202	Do Not Handle Until All Safety Precautions Have Been Read And Understood
P260	Do Not Breathe Dust/Fume/Gas/Mist/Vapors/Spray
P264	Wash Thoroughly After Handling
P270	Do Not Eat/Drink/Smoke While Using This Product
P271	Use Only Outdoors Or In A Well Ventilated Area
P272	Contaminated Work Clothing Should Not Be Allowed Out Of The Workplace
P280	Wear Protective Gloves/Protective Clothing/Eye Protection/Face Protection
P285	In Case Of Inadequate Ventilation Wear Respiratory Protection
P301 +P315	If Swallowed: Get Immediate Medical Advice/Attention
P330	Rinse Mouth
P331	Do Not Induce Vomiting
P363	Wash Contaminated Clothing Before Reuse
P302 + P362+P353	If On Skin: take Off Contaminated Clothing, Rinse Skin With Water/Shower
P332+P313	If Skin Irritation Occurs, Get Medical Advice/Attention
P305+P351+P338	If In Eyes: Rinse Cautiously With Water For Several Minutes, Remove Contact Lenses

P304+P340+P314	If Present And Easy To Do. Continue Rinsing. If Inhaled: Remove Person To Fresh Air And Keep Comfortable For Breathing, Get Medical Advice/Attention If You Feel Unwell.
P309+P311	If Exposed Or If You Feel Unwell: Call A Poison Center Or Doctor
P312	Call A Poison Center Or Doctor/Physician if You Feel Unwell.
P337+P313	If Eye Irritation Persists: Get Medical Attention
P403+P233	Store In A Well Ventilated Place. Keep Container Tightly Closed
P405	Store Locked Up
P501	Dispose Of Contents/Container In Accordance With Local/Regional/National/International/Regulations

III. Composition/Information on Ingredients

<u>Ingredients:</u>	<u>CAS #:</u>	<u>CONTENT</u>
Modified MDI	Not Disclosed	40-70%
4,4' methylene diphenyl diisocyanate	26447-40-5	30-60%

California Proposition 65 ingredients

None

Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 (40CFR372)

4,4' methylene diphenyl diisocyanate 101-68-8 – RQ is 5000lbs

IV. First Aid Measures

<u>Inhalation</u>	Remove victim from exposure. If difficulty with breathing, administer oxygen and seek medical assistance
<u>Eyes</u>	Flush eyes with cold water for a minimum of 15 minutes, lifting lower and upper eye lids throughout. Seek immediate medical attention.
<u>Skin</u>	Immediately remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.
<u>Ingestion</u>	Do not induce vomiting, get immediate medical attention, if vomiting occurs spontaneously keep head below hips to prevent aspiration of liquids into lungs. Do not give anything by mouth to an unconscious person

V. Fire Fighting Methods

HMIS Hazard Rating No. 1

Flash Point: (Close cup =428 *F or 220 *C,
Open cup=428 *F or 220 *C)

General Hazard: Decomposition and combustion products may be toxic.

Auto-Ignition Temp.: >600°

Limits of Flammability

LEL: Not Available

UEL: Not Available

Extinguishing Media

Carbon dioxide, foam, dry chemical and water fog.

Special Fire & Unusual Hazards

Move containers from area if it can be done without risk. Cool fire-exposed containers with water from the side. As in any fire, wear NIOSH/MSHA approved; pressure demand self-contained breathing apparatus and full protective gear. Avoid water contamination in closed containers or confined areas as carbon dioxide is evolved.

VI. Accidental Release Measures

Action To Take For Spills/ Leaks: Avoid contact with skin or eyes, ventilate area; and eliminate all sources of ignition. Wear appropriate protective gear, contain leak or spill, salvage, and clean up residue with absorbent material. Wash down area with dilute ammonium hydroxide or detergent solution; allow 30 minutes to react. For large spills, dike area and pump into closed containers. Prevent this material from entering waterways.

Waste Disposal Method: Handle disposal of waste material in a manner that complies with local, state, province and federal regulation. Landfill if solidified or incineration at agency approved waste-disposal facilities.

VII. Handling And Storage

Special Instructions

Keep containers closed and stored in a well-ventilated area at 60 —80 deg F. Outage of container should be filled with nitrogen. Contamination by moisture or basic compounds can cause dangerous pressure build up in closed containers.
Protect From Freezing

VIII. Exposure Controls / Personal Protection

Ventilation: Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to avoid build up of heavy vapors.

Personal Protection Equipment: Do NOT wear contact lenses when working with this material. Use chemical goggles/safety glasses with side shields and impervious gloves. Wear clothing with long sleeves and pants. **In operations where mists can be generated or the exposure limits for crystalline silica exceeded, wear a NIOSH/MSHA approved dust/fume respirator selected by a technically qualified person for the specific work conditions.** Wear respirator protection whenever airborne concentrations exceed TLV ceilings or TWA, use NIOSH approved respirators for listed hazard.

Confined spaces, room, or tanks are areas where concern for TLV's is especially important. Reference OSHA regulation CFR 29 1910.134 for recommended respiratory protection.

IX. Physical And Chemical Properties

Boiling Point (°C):	>300° C Decomposes	Water/Oil Distribution	N/A
VOC Content g/l:	10 g / L	Coefficient:	
Freezing Point (°C):	N/A	Solubility in Water:	Reacts with water
Vapor Pressure @ 20° C	4 x 10-6 mmHg	Specific Gravity @20° C	1.21
Vapor Density	8.5	pH:	N/A
Odor Threshold:	N/A	Evaporation Rate:	N/A
Appearance:	Amber liquid	Odor:	Musty
N/A = Not Available	N/D=NOT Determined	Ca. = Approximate	

X. Stability And Reactivity

HMIS Hazard Rating No. 1

Stability

Stable

Incompatibility:

Strong acids, oxidizing agents reducing agents bases water peroxides and amines.

Hazardous Decomposition Products

At elevated temperatures, isocyanate vapors may be formed. Under severe thermal degradation, carbon monoxide and low molecular weight organic compounds may be formed as well as hydrogen cyanide and MDI vapors.

Conditions To Avoid

See incompatibility.

XI. Toxicity Information

HMIS Hazard Rating No. 3

PRIMARY ROUTE OF ENTRY: Eye and skin contact, breathing and ingestion.

Effects Of Overexposure

Inhalation:

Inhalation of MDI vapors may cause irritation of the mucous membranes of the nose, throat, or trachea, breathlessness, chest discomfort, and difficulty breathing and reduced pulmonary function. Airborne exposure well above the PEL may result additionally in eye irritation, headache, chemical bronchitis, and asthma like findings or pulmonary edema. Isocyanates have also been reported to cause hypersensitivity pneumonitis, which is characterized by flu like symptoms, the onset of which may be delayed.

Eyes:

Contact can cause burning and tearing.

Skin Contact:

Contact may cause moderate skin irritation. In some individuals exposure may result in allergic type symptoms causing rash, itching, and hives.

Ingestion:

Not expected to be a relevant route of exposure although it may cause gastrointestinal irritation, nausea, and vomiting and abdominal pain.

Chronic:

Results from a lifetime study in rats indicate that MDI aerosol was carcinogenic at 6mg/m³, the highest dose tested. This is well above the recommended TLV of 5ppb (0.05mg/m³). Only irritation was noted at the lower concentrations of 0.2 and 1 mg/m³. No birth defects or teratogenic effects were reported in a teratology study with rats exposed to 1, 4, and 12mg/m³ polymeric MDI for 6hr/day on days 6 – 15 of gestation. As a result of repeated overexposure or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate levels at levels well below the PEL / TLV. These symptoms include chest tightness, wheezing, cough, shortness of breath, or asthma attack, which could be immediate or occur several hours after exposure. Chronic overexposure to isocyanates has also been reported to cause lung damage, including a decrease in lung function, which may be permanent.

XII. Ecological Information

Marine Pollutant: NL
(NL = Not Listed; P = Moderate; PP = Severe; ND = Not Determined)

XIII. Disposal Considerations

Handle disposal of waste material in a manner that complies with all applicable local, state, provincial and federal regulations.

XIV. Transport Information

DOT SHIPPING INFORMATION

DOT Proper Shipping Name **NOT REGULATED**

DOT Hazard Class

DOT I.D Number

Label(s)

XV. Regulatory Information

OSHA Hazard Communication Standard
(29 CFR 1910.1200)

Hazardous

CERCLA/ Super fund (40 CFR 117,302)

N/A

**REPORTABLE QUANTITY=5000 LBS SINGLE
CONTAINER, IF SINGLE CONTAINER
LESS THAN 5000 LBS THEN
NOT REGULATED**

**4,4' Diphenylmethane Diisocyanate
CAS# 101-68-8, RQ is 5000 lbs**

SARA Extremely Hazardous Substances
(40 CFR 355)

N/A

SARA Hazard Categories (40 CFR 370)

SARA Toxic Chemicals (40 CFR 372)

Inventory Status

See section III supplier notification
The chemicals in this product are listed on the US
TSCA Chemical Substance Inventory and the
Canadian Domestic Substances List.

XVI. Other Information

THE INFORMATION HEREIN HAS BEEN COMPILED FROM SOURCES BELIEVED TO BE RELIABLE AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, LymTal INTERNATIONAL INC. CANNOT GIVE ANY GUARANTEES REGARDING INFORMATION FROM OTHER SOURCES, AND EXPRESSLY DOES NOT MAKE ANY WARRANTIES, NOR ASSUMES ANY LIABILITY, FOR ITS USE.

Date of Preparation/ Last Revision: 1/18/2016

Safety Data Sheet

I. Product and Company Identification

PRODUCT: ISOCRETE 450 SG PART B
MANUFACTURER: LymTal International, Inc.
4150 S. Lapeer Rd. Orion, MI 48359
www.lymtal.com
For Non-Emergency Questions,
Hours 8AM To 4PM Eastern Standard Time
(248) 373-8100

EMERGENCY CONTACT: 24-Hour Chemtrec (800)424-9300
Chemtrec, D.C. Area (800)483-7616

II. Hazards Identification

Classification of the Substance or Mixture:



Aspiration Hazard, CAT 2

Signal Word: **WARNING**

Hazard Statements:

H305	May Be Harmful If Swallowed and Enters Airways	Aspiration Hazard, Cat 2
H316	Causes Mild Skin Irritation	Skin Corrosion/Irritation Cat 3
H320	Causes Eye Irritation	Eye Damage/Irritation, Cat 2B

Precautionary Statements:

P102	Keep Out Of Reach Of Children
P103	Read Label Before Use
P202	Do Not Handle Until All Safety Precautions Have Been Read And Understood
P264	Wash Thoroughly After Handling
P270	Do Not Eat/Drink/Smoke While Using This Product
P271	Use Only Outdoors Or In A Well Ventilated Area
P280	Wear Protective Gloves/Protective Clothing/Eye Protection/Face Protection
P301 +P310	If Swallowed: Immediately Call A Poison Center/Doctor
P305+P351+P338	If In Eyes: Rinse Cautiously With Water For Several Minutes, Remove Contact Lenses If Present And Easy To Do. Continue Rinsing.
P309+P311	If Exposed Or If You Feel Unwell: Call A Poison Center Or Doctor
P331	Do Not Induce Vomiting
P332+P313	If Skin Irritation Occurs, Get Medical Advice/Attention
P337+P313	If Eye Irritation Persists: Get Medical Advice/Attention
P403+P233	Store In A Well Ventilated Place. Keep Container Tightly Closed.
P405	Store Locked Up
P501	Dispose Of Contents/Container In Accordance With Local/Regional/National/International/Regulations

III. Composition/Information on Ingredients

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). Where a proprietary ingredient is shown, the identity may be made available as provided in this standard. All components of this product are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

<u>Ingredients:</u>	<u>CAS #:</u>	<u>CONTENT</u>
Vegetable Oil Triglycerides	8001-79-4	>50%
1,2-Benzenedicarboxylic Acid, DI-C8-10-Branched Alkyl Esters, C9 Rich Proprietary Ingredients	68515-48-0	20-25% Balance

California Proposition 65 ingredients

None

Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 (40CFR372)

None

IV. First Aid Measures

<u>Inhalation</u>	Remove victim from exposure. If difficulty with breathing, administer oxygen and seek medical assistance
<u>Eyes</u>	Flush eyes with cold water for a minimum of 15 minutes, lifting lower and upper eye lids throughout. Seek immediate medical attention.
<u>Skin</u>	Immediately remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.
<u>Ingestion</u>	Do not induce vomiting; get immediate medical attention, if vomiting occurs spontaneously keep head below hips to prevent aspiration of liquids into lungs. Do not give anything by mouth to an unconscious person

V. Fire Fighting Methods

HMIS Hazard Rating No. 1

Flash Point: 214 °C or 417 °F, ASTM D-93

General Hazard: Decomposition and combustion products may be toxic.

Auto-Ignition Temp.: > 350 °C (662 °F).

Limits of Flammability

LEL: Not Available

UEL: Not Available

Extinguishing Media

Carbon dioxide, foam, dry chemical and water fog.

Special Fire & Unusual Hazards

Move containers from area if it can be done without risk. Cool fire-exposed containers with water from the side. As in any fire, wear NIOSH/MSHA approved, pressure demand self contained breathing apparatus and full protective gear.

VI. Accidental Release Measures

Action To Take For Spills/ Leaks: Avoid contact with skin or eyes, ventilate area, and eliminate all sources of ignition. Wear appropriate protective gear, contain leak or spill, salvage, and clean up residue with absorbent material. Wash down area with dilute ammonium hydroxide or detergent solution, allow 30 minutes to react. For large spills, dike area and pump into closed containers. Prevent this material from entering waterways.

Waste Disposal Method: Handle disposal of waste material in a manner that complies with local, state, province and federal regulation. Landfill if solidified or incineration at agency approved waste-disposal facilities.

VII. Handling And Storage

Store Dry At 50-95°F. Condition Material To 65-85°F Before Using

PROTECT FROM FREEZING

VIII. Exposure Controls / Personal Protection

Ventilation: Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to avoid build up of heavy vapors.

Personal Protection Equipment: Do NOT wear contact lenses when working with this material. Use chemical goggles/safety glasses with side shields and impervious gloves. Wear clothing with long sleeves and pants. In operations where mists can be generated or the exposure limits for crystalline silica exceeded, wear a NIOSH/MSHA approved dust/fume respirator selected by a technically qualified person for the specific work conditions. Wear respirator protection whenever airborne concentrations exceed TLV ceilings or TWA, use NIOSH approved respirators for listed hazard.

Confined spaces, room, or tanks are areas where concern for TLV's is especially important. Reference OSHA regulation CFR 29 1910.134 for recommended respiratory protection.

IX. Physical And Chemical Properties

Boiling Point (°C):	100 *C (212 *F)	Water/Oil Distribution Coefficient:	N/A
Percent Volatile:	< 10 g / L	Solubility in Water:	Insoluble
Freezing Point (°C):	N/A	Specific Gravity @20° C	0.971
Vapor Pressure @ 20° C	N/A	pH:	N/A
Vapor Density	N/A	Evaporation Rate:	N/A
Odor Threshold:	N/A	Odor:	Fatty Acid
Appearance:	MILKY – OFF WHITE liquid	Flash Point	214 *C or
N/A = Not Available	N/D=NOT Determined	Ca. = Approximate	

X. Stability And Reactivity

HMIS Hazard Rating No. 1

Stability

Stable under normal conditions

Incompatibility:

Oxidizing agents (AVOID STRONG OXIDIZERS).

Hazardous Decomposition Products

Under severe thermal degradation, carbon monoxide and low molecular weight organic compounds may be formed as well as dense smoke.

Conditions To Avoid

See incompatibility.

XI. Toxicity Information

HMIS Hazard Rating No. 1

PRIMARY ROUTE OF ENTRY: Inhalation, dermal

Effects Of Overexposure

<u>Inhalation:</u>	Inhalation is not likely to be hazardous.
<u>Eyes:</u>	Contact can cause burning and tearing.
<u>Skin Contact:</u>	Contact may cause moderate skin irritation. In some individuals exposure may result in allergic type symptoms causing rash, itching, and hives.
<u>Ingestion:</u>	Not expected to be a relevant route of exposure.
<u>Chronic:</u>	Not Known.

XII. Ecological Information

Marine Pollutant: NL
(NL = Not Listed; P = Moderate; PP = Severe; ND = Not Determined)

XIII. Disposal Considerations

Handle disposal of waste material in a manner that complies with all applicable local, state, provincial and federal regulations. Contact the Manufacturer for proper disposal guidelines.

XIV. Transport Information

DOT SHIPPING INFORMATION

DOT Proper Shipping Name: **NOT REGULATED**
DOT Hazard Class:NA/
DOT I.D Number:N/A Label(s):N/A

IATA – DGR CLASS :
NOT REGULATED

IDMG CLASS :
NOT REGULATED

XV. Regulatory Information

OSHA Hazard Communication Standard (29 CFR 1910.1200)	Hazardous
CERCLA/ Super fund (40 CFR 117,302)	N/A
SARA Extremely Hazardous Substances (40 CFR 355)	N/A
SARA Hazard Categories (40 CFR 370)	See section III supplier notification
SARA Toxic Chemicals (40 CFR 372) Inventory Status	The chemicals in this product are listed on the US TSCA Chemical Substance Inventory and the Canadian Domestic Substances List.

XVI. Other Information

THE INFORMATION HEREIN HAS BEEN COMPLIED FROM SOURCES BELIEVED TO BE RELIABLE AND IS ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, LymTal INTERNATIONAL INC. CANNOT GIVE ANY GUARANTEES REGARDING INFORMATION FROM OTHER SOURCES, AND EXPRESSLY DOES NOT MAKE ANY WARRANTIES, NOR ASSUMES ANY LIABILITY, FOR ITS USE.

Date of Preparation/ Last Revision: 01/07/2016

Safety Data Sheet

I. Product and Company Identification

PRODUCT: ISOCRETE 450 SG PART C SAND

MANUFACTURER: LymTal International, Inc.
4150 S. Lapeer Rd. Orion, MI 48359
www.lymtal.com
For Non-Emergency Questions,
Hours 8AM To 4PM Eastern Standard Time
(248) 373-8100

EMERGENCY CONTACT: 24-Hour Chemtrec (800)424-9300
Chemtrec, D.C. Area (800)483-7616

II. Hazards Identification

Classification of the Substance or Mixture:



Carcinogenicity, CAT 1A; STOT Repeated Exposure, CAT 1 (Lungs, Respiratory System)



STOT Single Exposure, CAT 3A (Lungs, Resp Irritation)

Signal Word: **DANGER**

Hazard Statements:

H335	May Cause Respiratory Irritation	Stot Single Exposure, Cat 3A, (Lungs, Respiratory System)
H350	May Cause Cancer (Inhalation)	Carcinogenicity, CAT 1A
H372	Causes Damage To Organs Through Prolonged Or Repeated Exposure	Stot Repeated Exposure, Cat 1 (Lungs, Respiratory System)

Precautionary Statements:

P102	Keep Out Of Reach Of Children
P103	Read Label Before Use
P201	Obtain Special Instructions Before Use
P202	Do Not Handle Until All Safety Precautions Have Been Read And Understood
P260	Do Not Breathe Dust/Fume/Gas/Mist/Vapors/Spray
P264	Wash Thoroughly After Handling
P270	Do Not Eat/Drink/Smoke While Using This Product
P271	Use Only Outdoors Or In A Well Ventilated Area
P280	Wear Protective Gloves/Protective Clothing/Eye Protection/Face Protection
P285	In Case Of Inadequate Ventilation Wear Respiratory Protection
P308+P313	If Exposed Or Concerned: Get Medical Advice/Attention
P309+P311	If Exposed Or If You Feel Unwell: Call A Poison Center Or Doctor
P403+P233	Store In A Well Ventilated Place. Keep Container Tightly Closed
P405	Store Locked Up

III. Composition/Information on Ingredients

<u>Ingredients:</u>	<u>CAS #:</u>	<u>CONTENT</u>
Crystalline Silica (Quartz)	14808-60-7	60-70%
Calcium Salts:		20-30%
3CaOSiO ₂	12168-85-3	
2CaOSiO ₂	10034-77-2	
3CaOAl ₂ O ₂	12042-78-3	
4CaOAl ₂ O ₃ FeO ₃	12068-35-8	
CaSO ₂ 2H ₂ O	13397-24-5	
Proprietary Ingredients		Balance

California Proposition 65 ingredients

None

Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 (40CFR372)

None

IV. First Aid Measures

Inhalation

Remove victim from exposure. If difficulty with breathing, administer oxygen and seek medical assistance

WARNING! HARMFUL IF INHALED. OVEREXPOSURE MAY CAUSE LUNG DAMAGE. MAY CAUSE EYE IRRITATION. INHALATION CANCER HAZARD. CONTAINS QUARTZ WHICH CAN CAUSE CANCER. Risk of cancer depends upon duration and level of exposure.

Eyes

Flush eyes with cold water for a minimum of 15 minutes, lifting lower and upper eye lids throughout. Seek immediate medical attention.

Skin

Immediately remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.

Ingestion

Do not induce vomiting; get immediate medical attention, if vomiting occurs spontaneously keep head below hips to prevent aspiration of liquids into lungs. Do not give anything by mouth to an unconscious person

V. Fire Fighting Methods

HMIS Hazard Rating No. 0

Flash Point: Not flammable

General Hazard: Not Applicable.

Auto-Ignition Temp.: Not Applicable.

Limits of Flammability

LEL: Not Available

UEL: Not Available

Extinguishing Media

Not Applicable.

Special Fire & Unusual Hazards

None

VI. Accidental Release Measures

Action To Take For Spills/ Leaks: Ventilate area, wear appropriate protective gear, contain spill, salvage, clean up residue by sweeping and collect in suitable containers and follow waste disposal method below.
Waste Disposal Method: Handle disposal of waste material in a manner that complies with local, state, province and federal regulation. Landfill if solidified or incineration at agency approved waste-disposal facilities.

VII. Handling And Storage

Store Dry At 50-95°F. Condition Material To 65-85°F Before Using

VIII. Exposure Controls / Personal Protection

Ventilation: Ventilation is recommended. Air movement must be designed to insure turnover at all locations in work area to avoid build up of dust.

Personal Protection Equipment: Do NOT wear contact lenses when working with this material. Use chemical goggles/safety glasses with side shields and impervious gloves. Wear clothing with long sleeves and pants. In operations where dust / mists can be generated or the exposure limits for crystalline silica exceeded, wear a NIOSH/MSHA approved dust / fume respirator selected by a technically qualified person for the specific work conditions. Wear respirator protection whenever airborne concentrations exceed TLV ceilings or TWA, use NIOSH approved respirators for listed hazard.

Confined spaces, room, or tanks are areas where concern for TLV's is especially important. Reference OSHA regulation CFR 29 1910.134 for recommended respiratory protection.

IX. Physical And Chemical Properties

Boiling Point (°C):	N/A	Water/Oil Distribution Coefficient:	N/A
VOC Content g/l:	0 g / L	Solubility in Water:	N/A
Freezing Point (°C):	N/A	Specific Gravity @20° C	1.50
Vapor Pressure @ 20° C	N/A	pH:	N/A
Vapor Density	N/A	Evaporation Rate:	N/A
Odor Threshold:	N/A	Odor:	Aggregate
Appearance:	Solid aggregate		
N/A = Not Available	N/D=NOT Determined	Ca. = Approximate	

X. Stability And Reactivity

HMIS Hazard Rating No. 0

Stability

Stable

Incompatibility:

Avoid hydrofluoric acid as this will react with the silica to generate the corrosive gas SiF₄.

Hazardous Decomposition Products

Not Applicable

Conditions To Avoid

Hydrofluoric acid

XI. Toxicity Information

HMIS Hazard Rating No. 1

PRIMARY ROUTE OF ENTRY: Inhalation, dermal, skin and eyes.

Effects Of Overexposure

Inhalation:

May cause silicosis of the lungs over time without dust masks etc.

WARNING! HARMFUL IF INHALED. OVEREXPOSURE MAY CAUSE LUNG DAMAGE. MAY CAUSE EYE IRRITATION. INHALATION CANCER HAZARD. CONTAINS QUARTZ WHICH CAN CAUSE CANCER. Risk of cancer depends upon duration and level of exposure.

The light gray powder poses little immediate hazard. A single short-term exposure to the dry powder is not likely to cause serious harm. However, exposure of sufficient duration to wet powder can cause serious, potentially irreversible tissue (skin or eye) destruction in the form of chemical (caustic) burns. The same type of tissue destruction can occur if wet or moist areas of the body are exposed for sufficient duration to the dry powder.

cement clinker (CAS# 65997-15-1) - approximately - 93.5-96.0 % by weight

ACGIH TLV-TWA (2000) = 10 mg total dust/m³

OSHA PEL (8-hour TWA) = 50 million particles/ft³

Gypsum (CAS# 7778-18-9) - approximately - 4.0-6.5 % by weight

ACGIH TLV-TWA (2000) = 10 mg total dust/m³

OSHA PEL (8-hour TWA) = 15 mg total dust/m³

OSHA PEL (8-hour TWA) = 5 mg respirable dust/m³

Respirable quartz (CAS# 14808-60-7) – greater than 0.1% by weight

ACGIH TLV-TWA (2000) = 0.05 mg respirable quartz dust/m³

OSHA PEL (8-hour TWA) = (10 mg respirable dust/m³)/(percent silica + 2)

Eyes:

Contact can cause severe irritation, redness, tearing and blurred vision.

Skin Contact:

May cause moderate skin irritation.

Ingestion:

May cause permanent damage to the mouth throat and stomach.

XII. Ecological Information

Marine Pollutant: NL

(NL = Not Listed; P = Moderate; PP = Severe; ND = Not Determined)

XIII. Disposal Considerations

Handle disposal of waste material in a manner that complies with all applicable local, state, provincial and federal regulations.

XIV. Transport Information

DOT SHIPPING INFORMATION

DOT Proper Shipping Name

DOT SHIPPING INFORMATION

DOT Proper Shipping Name:

**IATA – DGR CLASS :
NOT REGULATED**

**IDMG CLASS :
NOT REGULATED**

XV. Regulatory Information

OSHA Hazard Communication Standard (29 CFR 1910.1200)	See section III
CERCLA/ Super fund (40 CFR 117,302)	N/A
SARA Extremely Hazardous Substances (40 CFR 355)	N/A
SARA Hazard Categories (40 CFR 370)	N/A
SARA Toxic Chemicals (40 CFR 372)	None
Inventory Status	The chemicals in this product are listed on the US TSCA Chemical Substance Inventory and the Canadian Domestic Substances List.

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Date of Preparation/ Last Revision: 01/19/2016