

---

# MATERIAL SAFETY DATA SHEET

---

## SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

---

**Identity:** SG-1 Creamy Caramel  
**Manufacturer's Name:** Minnesota Clay  
**Address:** 2960 Niagara Lane, Plymouth MN 55447  
**Tel Phone:** (763) 432-0875  
**Emergency Tel:** None  
**Date Prepared:** July 29, 2011  
**Replaces MSDS dated:** N/A

---

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

---

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m <sup>3</sup> )		LD <sub>50</sub> mg/kg	LC <sub>50</sub> mg/m <sup>3</sup>
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m<sup>3</sup></u> %Silica+2	0.025	NA	NA
Tin Compounds	7440-31-5	2	0	NA	NA
Titanium Dioxide	13463-67-7	.1	.2	NA	NA

---

## SECTION 3 - HAZARD IDENTIFICATION

---

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective

tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

#### Tin or Tin Compounds

Chronic exposure to Tin Oxide fumes or dust may result in Stannosis, a form of Pneumoconiosis.

#### Titanium Dioxide

NIOSH has identified titanium dioxide as a potential occupational carcinogen.

---

### **SECTION 4 - FIRST-AID MEASURES**

---

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

---

### **SECTION 5 - FIRE-FIGHTING MEASURES**

---

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

---

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

---

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

---

**SECTION 7 - HANDLING AND STORAGE**

---

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

---

**SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

---

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

---

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

---

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

---

## **SECTION 10 - STABILITY AND REACTIVITY**

---

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

---

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

---

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

---

## **SECTION 12 - ECOLOGICAL INFORMATION**

---

No specific information available.

---

**SECTION 13 - DISPOSAL INFORMATION**

---

Dispose according to local regulations, No specific information available

---

**SECTION 14 - TRANSPORTATION INFORMATION**

---

No specific information available

---

**SECTION 15 - REGULATORY INFORMATION**

---

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available

---

**SECTION 16 - OTHER INFORMATION**

---

Conforms to D 4236

No other specific information available

---

# MATERIAL SAFETY DATA SHEET

---

## SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

---

**Identity:** SG-2 Nebula

**Manufacturer's Name:** Minnesota Clay

**Address:** 2960 Niagara Lane, Plymouth MN 55447

**Tel Phone:** (763) 432-0875

**Emergency Tel:** None

**Date Prepared:** July 29, 2011

**Replaces MSDS dated:** N/A

---

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

---

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m <sup>3</sup> )		LD <sub>50</sub> mg/kg	LC <sub>50</sub> mg/m <sup>3</sup>
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m<sup>3</sup></u> %Silica+2	0.025	NA	NA
Titanium Dioxide	13463-67-7	.1	.2	NA	NA
Pigments	Varies	NA	NA	NA	NA

---

## SECTION 3 - HAZARD IDENTIFICATION

---

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

#### Titanium Dioxide

NIOSH has identified titanium dioxide as a potential occupational carcinogen.

#### Pigments (Stains)

Contains pigments which are produced from various metal salts, and, or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

---

### **SECTION 4 - FIRST-AID MEASURES**

---

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

---

### **SECTION 5 - FIRE-FIGHTING MEASURES**

---

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

---

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

---

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

---

**SECTION 7 - HANDLING AND STORAGE**

---

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

---

**SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

---

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

---

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

---

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No



Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

---

## **SECTION 10 - STABILITY AND REACTIVITY**

---

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

---

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

---

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

---

## **SECTION 12 - ECOLOGICAL INFORMATION**

---

No specific information available.

---

**SECTION 13 - DISPOSAL INFORMATION**

---

Dispose according to local regulations. No specific information available.

---

**SECTION 14 - TRANSPORTATION INFORMATION**

---

No specific information available.

---

**SECTION 15 - REGULATORY INFORMATION**

---

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

---

**SECTION 16 - OTHER INFORMATION**

---

Conforms to D 4236

No other specific information available.

---

# MATERIAL SAFETY DATA SHEET

---

## SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

---

**Identity:** SG-3 Blue Ice  
**Manufacturer's Name:** Minnesota Clay  
**Address:** 2960 Niagara Lane, Plymouth MN 55447  
**Tel Phone:** (763) 432-0875  
**Emergency Tel:** None  
**Date Prepared:** July 29, 2011  
**Replaces MSDS dated:** N/A

---

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

---

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m <sup>3</sup> )		LD <sub>50</sub> mg/kg	LC <sub>50</sub> mg/m <sup>3</sup>
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m<sup>3</sup></u> %Silica+2	0.025	NA	NA
Titanium Dioxide	13463-67-7	.1	.2	NA	NA
Pigments	Varies	NA	NA	NA	NA

---

## SECTION 3 - HAZARD IDENTIFICATION

---

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the

risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

#### Titanium Dioxide

NIOSH has identified titanium dioxide as a potential occupational carcinogen.

#### Pigments (Stains)

Contains pigments which are produced from various metal salts, and, or other organic chemicals. Many of these pigments are in the form of spinel, which are formed by the reaction of these different metal salts at high temperature into essentially insoluble homogeneous pigment crystals. Spinel is considered of less hazardous than the individual metals they contain. The pigments used may contain one or more of the following: silica (quartz), cobalt, vanadium, copper, iron, manganese, chromium and cadmium (encapsulated).

---

### **SECTION 4 - FIRST-AID MEASURES**

---

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

---

### **SECTION 5 - FIRE-FIGHTING MEASURES**

---

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

---

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

---

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

---

**SECTION 7 - HANDLING AND STORAGE**

---

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

---

**SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

---

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

---

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

---

Appearance - Powder

pH - N/A

Explosive Properties - N/A

Oxidizing Properties - N/A

Odor and Odor Threshold - N/A

Boiling Point - N/A

Partition Coefficient - N/A

Solubility in Water - No

Vapor Pressure - N/A

Freezing Point - N/A

Percent Volatile - N/A

Specific Gravity - N/A

Vapor Density - N/A

Flash Point - N/A

Applicable Evaporation Rate - N/A

Flammable Limits - N/A

Melting/Softening Point - None

Auto-Ignition Temperature - N/A

---

## **SECTION 10 - STABILITY AND REACTIVITY**

---

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

---

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

---

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

---

## **SECTION 12 - ECOLOGICAL INFORMATION**

---

No specific information available.

---

**SECTION 13 - DISPOSAL INFORMATION**

---

Dispose according to local regulations. No specific information available.

---

**SECTION 14 - TRANSPORTATION INFORMATION**

---

No specific information available.

---

**SECTION 15 - REGULATORY INFORMATION**

---

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

---

**SECTION 16 - OTHER INFORMATION**

---

Conforms to D 4236

No other specific information available.

---

# MATERIAL SAFETY DATA SHEET

---

## SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

---

**Identity:** SG-4 New Albany Brown  
**Manufacturer's Name:** Minnesota Clay  
**Address:** 2960 Niagara Lane, Plymouth MN 55447  
**Tel Phone:** (763) 432-0875  
**Emergency Tel:** None  
**Date Prepared:** July 29, 2011  
**Replaces MSDS dated:** N/A

---

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

---

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m <sup>3</sup> )		LD <sub>50</sub> mg/kg	LC <sub>50</sub> mg/m <sup>3</sup>
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m<sup>3</sup></u> %Silica+2	0.025	NA	NA
Titanium Dioxide	13463-67-7	.1	.2	NA	NA
Manganese or Mang. Compounds	7439-96-5	5 Ceiling	.2	NA	NA

---

## SECTION 3 - HAZARD IDENTIFICATION

---

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are



some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

#### Titanium Dioxide

NIOSH has identified titanium dioxide as a potential occupational carcinogen.

#### Manganese or Manganese Compounds

Acute effects of exposure: Exposure via inhalation to heavy concentrations of dusts containing manganese compounds for as little as three months have affected the central nervous system as manganese poisoning. Chronic effects of exposure: Excessive, long-term inhalation of airborne mineral dusts and particulate may contribute to the development of bronchitis, reduced breathing capacity, and may lead to the increased susceptibility to lung disease. Manganese poisoning: The excessive, chronic inhalation of manganese compounds usually begins with complaints of languor and sleepiness. This is followed by weakness in the legs and the development of stolid, mask-like faces. The patient speaks with a slow monotonous voice. Then muscular twitching appear, varying from a fine tremor of the hands to coarse, rhythmical movements of the arms, legs, and trunk. There is a slight increase in tendon reflexes, ankle and patellar clonus, and a typical Parkinsonian slapping gait.

---

### **SECTION 4 - FIRST-AID MEASURES**

---

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

---

### **SECTION 5 - FIRE-FIGHTING MEASURES**

---

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

---

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

---

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

---

## **SECTION 7 - HANDLING AND STORAGE**

---

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

---

## **SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

---

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

---

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

---

Appearance - Powder

Odor and Odor Threshold - N/A

Explosive Properties - N/A

Partition Coefficient - N/A

pH - N/A

Oxidizing Properties - N/A

Boiling Point - N/A

Solubility in Water - No

Vapor Pressure - N/A

Percent Volatile - N/A

Vapor Density - N/A

Applicable Evaporation Rate - N/A

Melting/Softening Point - None

Freezing Point - N/A

Specific Gravity - N/A

Flash Point - N/A

Flammable Limits - N/A

Auto-Ignition Temperature - N/A

---

## **SECTION 10 - STABILITY AND REACTIVITY**

---

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None

Incompatibility – Unknown

---

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

---

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

---

## **SECTION 12 - ECOLOGICAL INFORMATION**

---

No specific information available.

---

**SECTION 13 - DISPOSAL INFORMATION**

---

Dispose according to local regulations. No specific information available.

---

**SECTION 14 - TRANSPORTATION INFORMATION**

---

No specific information available.

---

**SECTION 15 - REGULATORY INFORMATION**

---

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.

No specific other information available.

---

**SECTION 16 - OTHER INFORMATION**

---

Conforms to D 4236

No other specific information available.

---

# MATERIAL SAFETY DATA SHEET

---

## SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

---

**Identity:** SG-5 Celestial Blue  
**Manufacturer's Name:** Minnesota Clay  
**Address:** 2960 Niagara Lane, Plymouth MN 55447  
**Tel Phone:** (763) 432-0875  
**Emergency Tel:** None  
**Date Prepared:** July 29, 2011  
**Replaces MSDS dated:** N/A

---

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

---

INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m <sup>3</sup> )		LD <sub>50</sub> mg/kg	LC <sub>50</sub> mg/m <sup>3</sup>
		PEL	TLV		
Clay/Kaolin	1332-58-7	15	2	NA	NA
Silica (Quartz)	14808-60-7	<u>10mg/m<sup>3</sup></u> %Silica+2	0.025	NA	NA

---

## SECTION 3 - HAZARD IDENTIFICATION

---

Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

---

#### **SECTION 4 - FIRST-AID MEASURES**

---

Inhalation - Remove from exposure.

Dermal - Wash skin with soap and water.

Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.

Ingestion- Do not induce vomiting, contact a physician.

---

#### **SECTION 5 - FIRE-FIGHTING MEASURES**

---

Special Fire-Fighting Procedure - None

Unusual Fire or Explosion Hazards - None

Extinguishing Media - None

Hazardous Combustion Products –Unknown

---

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

---

Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

---

#### **SECTION 7 - HANDLING AND STORAGE**

---

Engineer Control – use adequate ventilation

Procedure/Equipment - no specific requirement. See personal protective equipment.

Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands

Storage - Store in tightly closed container. Storage in cool well-ventilated area.

---

## **SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

---

Engineering Measures – provide adequate ventilation

Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

---

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

---

Appearance - Powder

Percent Volatile - N/A

Explosive Properties - N/A

Vapor Density - N/A

Odor and Odor Threshold - N/A

Applicable Evaporation Rate - N/A

Partition Coefficient - N/A

Melting/Softening Point - None

pH - N/A

Freezing Point - N/A

Oxidizing Properties - N/A

Specific Gravity - N/A

Boiling Point - N/A

Flash Point - N/A

Solubility in Water - No

Flammable Limits - N/A

Vapor Pressure - N/A

Auto-Ignition Temperature - N/A

---

## **SECTION 10 - STABILITY AND REACTIVITY**

---

Stability - Unknown

Hazardous Polymerization - None

Hazardous Decomposition Products - None

Conditions to Avoid - None  
Incompatibility – Unknown

---

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

---

Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant. Inhalation of dust may cause lung effects.

Animal Experiment - There is no toxicity data on this mixture

Acute – Likely to be a skin and eye irritant

Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

---

## **SECTION 12 - ECOLOGICAL INFORMATION**

---

No specific information available.

---

## **SECTION 13 - DISPOSAL INFORMATION**

---

Dispose according to local regulations. No specific information available.

---

## **SECTION 14 - TRANSPORTATION INFORMATION**

---

No specific information available.

---

## **SECTION 15 - REGULATORY INFORMATION**

---

Ingredients are listed on TSCA, DSL and EINECS inventories.

Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.



No specific other information available.

---

**SECTION 16 - OTHER INFORMATION**

---

Conforms to D 4236

No other specific information available.