

**27103-1329****MSDS MATERIAL SAFETY DATA SHEET**

RUPERT, GIBBON &amp; SPIDER PO BOX 425, HEALDSBURG CA, 95448 TEL: (707) 433-9577 FAX: (707) 433-4906

**Pearl Ex Pearl White****MSDS No: 651 Effective Date: 2/28/01 Amendatory Date: 3/14/7****1. Product Identification**

Product Code: 651

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	20-24	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	1317-70-0
Mica	76-80	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2

c. respirable dust; q. total dust and containing no asbestos and &lt;1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Solubility in Water: Not soluble

Appearance &amp; Odor: White powder

Specific Gravity: N/A

Melting Point: N/A

Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A

Auto Ignition: N/A

Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical

Special Fire Procedures: N/A

Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable

Conditions to Avoid: N/A

Incompatibility: N/A

Hazardous Decomposition: Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion

Acute: Persistent cough and possible difficulty breathing.

Chronic: Chronic inhalation may cause pulmonary fibrosis

Signs &amp; Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.

Carcinogenic: N/A

**7. Emergency & First Aid Procedures**

Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

**MSDS** **MATERIAL SAFETY DATA SHEET**  
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**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

**Notice to Reader**

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**Pearl Ex Super Copper**

**MSDS No:** 655 **Effective Date:** 2/28/01 **Amendatory Date:** 3/14/7

**1. Product Identification**

Product Code: 655

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Mica	67-71	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Iron (III) Oxide	29-33	5u mg/m <sup>3</sup>	10d mg/m <sup>3</sup>	1309-37-1

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A  
 Vapor Pressure: N/A  
 Vapor Density: N/A  
 Solubility in Water: Not soluble  
 Appearance & Odor: Orange powder  
 Specific Gravity: 3.10-3.20 g/cm<sup>3</sup>  
 Melting Point: N/A  
 Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A  
 Auto Ignition: N/A  
 Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical  
 Special Fire Procedures: N/A  
 Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable  
 Conditions to Avoid: N/A  
 Incompatibility: N/A  
 Hazardous Decomposition: Carbon monoxide and carbon dioxide  
 Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion  
 Acute: Persistent cough and possible difficulty breathing.  
 Chronic: Chronic inhalation may cause pulmonary fibrosis  
 Signs & Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.  
 Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.  
 Carcinogenic: N/A

**7. Emergency & First Aid Procedures**

Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

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**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Sparkle Gold**

MSDS No: 657      Effective Date: 1/1/96      Amendatory Date: 3/14/7

**1. Product Identification**

Product Code: 657

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	25.5	10q mg/m3	10q mg/m3	1317-80-2
Mica	70.0	3c mg/m3	3c mg/m3	12001-26-2
Tin Oxide	N/A	2 mg/m3	2 mg/m3	18282-10-5
Graphite	N/A	15b mg/m3	2.5c mg/m3	7782-42-5
Chromium hydroxide	N/A	N/A	N/A	1308-14-1
Iron Oxide FE 203	04.5	5u mg/m3	10d mg/m3	1309-37-1

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Solubility in Water: Not soluble

Appearance & Odor: Light gold powder

Specific Gravity: 3.10-3.20 g/cm3

Melting Point: N/A

Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A

Auto Ignition: N/A

Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical

Special Fire Procedures: N/A

Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable

Conditions to Avoid: N/A

Incompatibility: N/A

Hazardous Decomposition: Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion

Acute: Persistent cough and possible difficulty breathing.

Chronic: Chronic inhalation may cause pulmonary fibrosis

Signs & Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.

**MSDS** **MATERIAL SAFETY DATA SHEET**  
RUPERT, GIBBON & SPIDER PO BOX 425, HEALDSBURG CA, 95448 TEL: (707) 433-9577 FAX: (707) 433-4906

Carcinogenic: N/A

**7. Emergency & First Aid Procedures**

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Antique Silver****MSDS No: 662 Effective Date: 2/28/01 Amendatory Date: 3/14/7****1. Product Identification**

Product Code: 662

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	16-23	TWA value 10mg/m <sup>3</sup>	PEL 15mg/m <sup>3</sup> Total dust	13463-67-7
Mica	58-73	TWA 3mg/m <sup>3</sup> Respirable fraction	TWA 20 millions of particle per cubic foot of air	12001-26-2
Iron Oxide (Fe <sub>3</sub> O <sub>4</sub> )	11-19	N/A	N/A	1317-61-9
Iron Oxide	<2.0	TWA value 5mg/m <sup>3</sup> Respirable fraction	N/A	1309-37-1

c. respirable dust; q. total dust and containing no asbestos and &lt;1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A  
 Vapor Pressure: N/A  
 Vapor Density: N/A  
 Solubility in Water: Not soluble  
 Appearance & Odor: greyish  
 Specific Gravity: 3.10-3.20 g/cm<sup>3</sup>  
 Melting Point: N/A  
 Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A  
 Auto Ignition: N/A  
 Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical  
 Special Fire Procedures: N/A  
 Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable  
 Conditions to Avoid: N/A  
 Incompatibility: N/A  
 Hazardous Decomposition: Carbon monoxide and carbon dioxide  
 Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion  
 Acute: Persistent cough and possible difficulty breathing.  
 Chronic: Chronic inhalation may cause pulmonary fibrosis  
 Signs & Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.  
 Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.  
 Carcinogenic: N/A

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**7. Emergency & First Aid Procedures**

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Interference Blue**

**MSDS No: 671** **Effective Date: 2/28/01** **Amendatory Date: 3/14/7**

**1. Product Identification**

Product Code: 671

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	48-53	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	13463-67-7
Mica	47-55	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Tin Oxide	<1	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	18282-10-5

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Solubility in Water: Not soluble

Appearance & Odor: White powder

Specific Gravity: 3.10-3.20 g/cm<sup>3</sup>

Melting Point: N/A

Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A

Auto Ignition: N/A

Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical

Special Fire Procedures: N/A

Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable

Conditions to Avoid: N/A

Incompatibility: N/A

Hazardous Decomposition: Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion

Acute: Persistent cough and possible difficulty breathing.

Chronic: Chronic inhalation may cause pulmonary fibrosis

Signs & Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.

Carcinogenic: N/A

**7. Emergency & First Aid Procedures**

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RUPERT, GIBBON & SPIDER PO BOX 425, HEALDSBURG CA, 95448 TEL: (707) 433-9577 FAX: (707) 433-4906

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.  
**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.  
**Skin:** Wash affected area with soap and water.  
**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Duo Green-Yellow**

MSDS No: 682      Effective Date: 2/28/01      Amendatory Date: 3/14/7

**1. Product Identification**

Product Code: 682

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	41.0	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	1317-80-2
Mica	56.5	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Tin Oxide	01.1	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	18282-10-5
Graphite	N/A	2.5c mg/m <sup>3</sup>	15b mg/m <sup>3</sup>	7782-42-5
Chromium hydroxide	00.9	N/A	N/A	1308-14-1
Iron Oxide FE 203	N/A	5u mg/m <sup>3</sup>	10d mg/m <sup>3</sup>	1309-37-1

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A  
 Vapor Pressure: N/A  
 Vapor Density: N/A  
 Solubility in Water: Not soluble  
 Appearance & Odor: Green powder  
 Specific Gravity: 3.10-3.20 g/cm<sup>3</sup>  
 Melting Point: N/A  
 Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A  
 Auto Ignition: N/A  
 Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical  
 Special Fire Procedures: N/A  
 Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable  
 Conditions to Avoid: N/A  
 Incompatibility: N/A  
 Hazardous Decomposition: Carbon monoxide and carbon dioxide  
 Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion  
 Acute: Persistent cough and possible difficulty breathing.  
 Chronic: Chronic inhalation may cause pulmonary fibrosis  
 Signs & Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.  
 Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.

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**Carcinogenic:** N/A

**7. Emergency & First Aid Procedures**

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Micropearl**

**MSDS No:** 650 **Effective Date:** 1/1/96 **Amendatory Date:** 3/14/7

**1. Product Identification**

Product Code: 650

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	35-39	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	1317-80-2
Mica	61-65	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A  
 Vapor Pressure: N/A  
 Vapor Density: N/A  
 Solubility in Water: Not soluble  
 Appearance & Odor: White powder  
 Specific Gravity: N/A  
 Melting Point: N/A  
 Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A  
 Auto Ignition: N/A  
 Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical  
 Special Fire Procedures: N/A  
 Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable  
 Conditions to Avoid: N/A  
 Incompatibility: N/A  
 Hazardous Decomposition: Carbon monoxide and carbon dioxide  
 Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion  
 Acute: Persistent cough and possible difficulty breathing.  
 Chronic: Chronic inhalation may cause pulmonary fibrosis  
 Signs & Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.  
 Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.  
 Carcinogenic: N/A

**7. Emergency & First Aid Procedures**

Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

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**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Macropearl****MSDS No: 652      Effective Date: 2/28/01      Amendatory Date: 3/14/7****1. Product Identification**

Product Code: 652

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	11-15	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	1317-70-0
Mica	85-89	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2

c. respirable dust; q. total dust and containing no asbestos and &lt;1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Solubility in Water: Not soluble

Appearance &amp; Odor: Light silver powder

Specific Gravity: N/A

Melting Point: N/A

Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A

Auto Ignition: N/A

Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical

Special Fire Procedures: N/A

Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable

Conditions to Avoid: N/A

Incompatibility: N/A

Hazardous Decomposition: Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion

Acute: Persistent cough and possible difficulty breathing.

Chronic: Chronic inhalation may cause pulmonary fibrosis

Signs &amp; Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.

Carcinogenic: N/A

**7. Emergency & First Aid Procedures**

Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

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**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Red Russet**

**MSDS No:** 653      **Effective Date:** 1/1/96      **Amendatory Date:** 3/14/7

**1. Product Identification**

**Product Code:** 653

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	48.0	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	1317-80-2
Mica	52.0	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Tin Oxide	N/A	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	18282-10-5
Graphite	N/A	15b mg/m <sup>3</sup>	2.5c mg/m <sup>3</sup>	7782-42-5
Chromium hydroxide	N/A	N/A	N/A	1308-14-1
Iron Oxide FE 203	N/A	5u mg/m <sup>3</sup>	10d mg/m <sup>3</sup>	1309-37-1

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

**Boiling Point:** N/A

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Solubility in Water:** Not soluble

**Appearance & Odor:** Red powder

**Specific Gravity:** 3.10-3.20 g/cm<sup>3</sup>

**Melting Point:** N/A

**Evaporation Rate:** N/A

**4. Fire & Explosion Data**

**Flash Point:** N/A

**Auto Ignition:** N/A

**Extinguishing Media:** Water spray, foam, carbon dioxide or dry chemical

**Special Fire Procedures:** N/A

**Unusual Hazards:** N/A

**5. Reactivity Data**

**Stable:** Stable

**Conditions to Avoid:** N/A

**Incompatibility:** N/A

**Hazardous Decomposition:** Carbon monoxide and carbon dioxide

**Hazardous Polymerization:** Will not occur

**6. Health Hazards**

**Routes of Entry:** Eyes, inhalation and ingestion

**Acute:** Persistent cough and possible difficulty breathing.

**Chronic:** Chronic inhalation may cause pulmonary fibrosis

**Signs & Symptoms of Exposure:** Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

**Medical Conditions Aggravated:** None known other than those that could be aggravated by dust exposure such as respiratory impairment.

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**Carcinogenic:** N/A

**7. Emergency & First Aid Procedures**

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin.

The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Super Russet**

MSDS No: 654      Effective Date: 2/28/01      Amendatory Date: 3/14/7

**1. Product Identification**

Product Code: 654

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Mica	53-57	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Iron (III) Oxide	43-47	5u mg/m <sup>3</sup>	10d mg/m <sup>3</sup>	1309-37-1

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A  
 Vapor Pressure: N/A  
 Vapor Density: N/A  
 Solubility in Water: Not soluble  
 Appearance & Odor: Reddish-orange powder  
 Specific Gravity: 3.10-3.20 g/cm<sup>3</sup>  
 Melting Point: N/A  
 Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A  
 Auto Ignition: N/A  
 Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical  
 Special Fire Procedures: N/A  
 Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable  
 Conditions to Avoid: N/A  
 Incompatibility: N/A  
 Hazardous Decomposition: Carbon monoxide and carbon dioxide  
 Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion  
 Acute: Persistent cough and possible difficulty breathing.  
 Chronic: Chronic inhalation may cause pulmonary fibrosis  
 Signs & Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.  
 Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.  
 Carcinogenic: N/A

**7. Emergency & First Aid Procedures**

Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

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**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Brilliant Gold**

**MSDS No: 656**      **Effective Date: 2/28/01**      **Amendatory Date: 3/14/7**

**1. Product Identification**

Product Code: 656

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	35-39	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	13463-67-7
Mica	57-64	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Tin Oxide	<1	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	18282-10-5
Iron Oxide FE 203	1-4	5u mg/m <sup>3</sup>	10d mg/m <sup>3</sup>	1309-37-1

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A  
 Vapor Pressure: N/A  
 Vapor Density: N/A  
 Solubility in Water: Not soluble  
 Appearance & Odor: Gold powder  
 Specific Gravity: 3.10-3.20 g/cm<sup>3</sup>  
 Melting Point: N/A  
 Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A  
 Auto Ignition: N/A  
 Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical  
 Special Fire Procedures: N/A  
 Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable  
 Conditions to Avoid: N/A  
 Incompatibility: N/A  
 Hazardous Decomposition: Carbon monoxide and carbon dioxide  
 Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion  
 Acute: Persistent cough and possible difficulty breathing.  
 Chronic: Chronic inhalation may cause pulmonary fibrosis  
 Signs & Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.  
 Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.  
 Carcinogenic: N/A

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**7. Emergency & First Aid Procedures**

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Aztec Gold**

**MSDS No:** 658 **Effective Date:** 2/28/01 **Amendatory Date:** 3/14/7

**1. Product Identification**

**Product Code:** 658

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	20-24	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	13463-67-1
Mica	53-61	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Tin Oxide	<1	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	18282-10-5
Iron Oxide FE 203	19-23	5u mg/m <sup>3</sup>	10d mg/m <sup>3</sup>	1309-37-1

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

**Boiling Point:** N/A

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Solubility in Water:** Not soluble

**Appearance & Odor:** Gold powder

**Specific Gravity:** 3.10-3.20 g/cm<sup>3</sup>

**Melting Point:** N/A

**Evaporation Rate:** N/A

**4. Fire & Explosion Data**

**Flash Point:** N/A

**Auto Ignition:** N/A

**Extinguishing Media:** Water spray, foam, carbon dioxide or dry chemical

**Special Fire Procedures:** N/A

**Unusual Hazards:** N/A

**5. Reactivity Data**

**Stable:** Stable

**Conditions to Avoid:** N/A

**Incompatibility:** N/A

**Hazardous Decomposition:** Carbon monoxide and carbon dioxide

**Hazardous Polymerization:** Will not occur

**6. Health Hazards**

**Routes of Entry:** Eyes, inhalation and ingestion

**Acute:** Persistent cough and possible difficulty breathing.

**Chronic:** Chronic inhalation may cause pulmonary fibrosis

**Signs & Symptoms of Exposure:** Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

**Medical Conditions Aggravated:** None known other than those that could be aggravated by dust exposure such as respiratory impairment.

**Carcinogenic:** N/A

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**7. Emergency & First Aid Procedures**

**Inhalation:** Remove to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use  
**Eyes:** Immediately flush with plenty of water for persists. get medical attention.  
**Skin:** Wash affected area with soap and water.  
**Ingestion:** Do NOT induce vomiting. If victim is milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedure**

**Handling & Storage:** Wash thoroughly after handling and wash it before reuse. Provide adequate ventilation minimize dust generation. Avoid ingestion, inhalation. The packages should be sound and puncture-proof a dry, well ventilated place.  
**Steps if Spilled:** Vacuum or sweep up material a container. Clean up spills immediately, observe for section. Avoid generating the phenomenon of dust.  
**Waste Disposal:** Dispose of in accordance with :

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust  
**Ventilation:** Local exhaust  
**Protective Gloves:** Rubber or plastic  
**Eye Protection:** Wear appropriate protective eye  
**Other Protection:** plastic apron, sleeves and boot showers and eyewash stations  
**Work/Hygienic Practices:** Follow general industrial

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**Pearl Ex Antique Gold****MSDS No: 659      Effective Date: 1/1/96      Amendatory Date: 3/14/7****1. Product Identification**

Product Code: 659

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	30.0	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	1317-80-2
Mica	51.5	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Tin Oxide	N/A	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	18282-10-5
Graphite	N/A	15b mg/m <sup>3</sup>	2.5c mg/m <sup>3</sup>	7782-42-5
Chromium hydroxide	N/A	N/A	N/A	1308-14-1
Iron Oxide FE 203	03.5	5u mg/m <sup>3</sup>	10d mg/m <sup>3</sup>	1309-37-1

c. respirable dust; q. total dust and containing no asbestos and &lt;1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Solubility in Water: Not soluble

Appearance &amp; Odor: Green-gold powder

Specific Gravity: 3.10-3.20 g/cm<sup>3</sup>

Melting Point: N/A

Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A

Auto Ignition: N/A

Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical

Special Fire Procedures: N/A

Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable

Conditions to Avoid: N/A

Incompatibility: N/A

Hazardous Decomposition: Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion

Acute: Persistent cough and possible difficulty breathing.

Chronic: Chronic inhalation may cause pulmonary fibrosis

Signs &amp; Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.

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Carcinogenic: N/A

**7. Emergency & First Aid Procedures**

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Antique Bronze****MSDS No: 660      Effective Date: 1/1/96      Amendatory Date: 3/14/7****1. Product Identification**

Product Code: 660

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	03.0	10q mg/m3	10q mg/m3	1317-80-2
Mica	62.0	3c mg/m3	3c mg/m3	12001-26-2
Tin Oxide	N/A	2 mg/m3	2 mg/m3	18282-10-5
Graphite	N/A	15b mg/m3	2.5c mg/m3	7782-42-5
Chromium hydroxide	N/A	N/A	N/A	1308-14-1
Iron Oxide FE 203	35.0	5u mg/m3	10d mg/m3	1309-37-1

c. respirable dust; q. total dust and containing no asbestos and &lt;1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Solubility in Water: Not soluble

Appearance &amp; Odor: Bronze powder

Specific Gravity: 3.10-3.20 g/cm<sup>3</sup>

Melting Point: N/A

Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A

Auto Ignition: N/A

Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical

Special Fire Procedures: N/A

Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable

Conditions to Avoid: N/A

Incompatibility: N/A

Hazardous Decomposition: Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion

Acute: Persistent cough and possible difficulty breathing.

Chronic: Chronic inhalation may cause pulmonary fibrosis

Signs &amp; Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.

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**Carcinogenic:** N/A

**7. Emergency & First Aid Procedures**

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Antique Copper**

**MSDS No: 661**      **Effective Date: 1/1/96**      **Amendatory Date: 3/14/7**

**1. Product Identification**

Product Code: 661

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	02.5	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	1317-80-2
Mica	47.5	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Tin Oxide	N/A	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	18282-10-5
Graphite	N/A	15b mg/m <sup>3</sup>	2.5c mg/m <sup>3</sup>	7782-42-5
Chromium hydroxide	N/A	N/A	N/A	1308-14-1
Iron Oxide FE 203	35.0	5u mg/m <sup>3</sup>	10d mg/m <sup>3</sup>	1309-37-1

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Solubility in Water: Not soluble

Appearance & Odor: Dark brown powder

Specific Gravity: 3.10-3.20 g/cm<sup>3</sup>

Melting Point: N/A

Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A

Auto Ignition: N/A

Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical

Special Fire Procedures: N/A

Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable

Conditions to Avoid: N/A

Incompatibility: N/A

Hazardous Decomposition: Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion

Acute: Persistent cough and possible difficulty breathing.

Chronic: Chronic inhalation may cause pulmonary fibrosis

Signs & Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.

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**Carcinogenic:** N/A

**7. Emergency & First Aid Procedures**

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Silver**

**MSDS No:** 663 **Effective Date:** 1/1/96 **Amendatory Date:** 3/14/7

**1. Product Identification**

**Product Code:** 663

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	26-30	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	1317-70-0
Mica	69-73	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Carbon Black	<1	N/A	N/A	N/A

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

**Boiling Point:** N/A

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Solubility in Water:** Not soluble

**Appearance & Odor:** Silver powder

**Specific Gravity:** 3.10-3.20 g/cm<sup>3</sup>

**Melting Point:** N/A

**Evaporation Rate:** N/A

**4. Fire & Explosion Data**

**Flash Point:** N/A

**Auto Ignition:** N/A

**Extinguishing Media:** Water spray, foam, carbon dioxide or dry chemical

**Special Fire Procedures:** N/A

**Unusual Hazards:** N/A

**5. Reactivity Data**

**Stable:** Stable

**Conditions to Avoid:** N/A

**Incompatibility:** N/A

**Hazardous Decomposition:** Carbon monoxide and carbon dioxide

**Hazardous Polymerization:** Will not occur

**6. Health Hazards**

**Routes of Entry:** Eyes, inhalation and ingestion

**Acute:** Persistent cough and possible difficulty breathing.

**Chronic:** Chronic inhalation may cause pulmonary fibrosis

**Signs & Symptoms of Exposure:** Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

**Medical Conditions Aggravated:** None known other than those that could be aggravated by dust exposure such as respiratory impairment.

**Carcinogenic:** N/A

**7. Emergency & First Aid Procedures**

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**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.  
**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.  
**Skin:** Wash affected area with soap and water.  
**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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## Pearl Ex Super Bronze

MSDS No: 664      Effective Date: 2/28/01      Amendatory Date: 5/12/07

### 1. Product Identification

Product Code: 664

### 2. Composition/Information on Ingredients

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Mica	61-65	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Iron (III) Oxide	35-39	5u mg/m <sup>3</sup>	10d mg/m <sup>3</sup>	1309-37-1

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

### 3. Physical & Chemical Characteristics

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Solubility in Water: Not soluble

Appearance & Odor: Bronze powder

Specific Gravity: 3.10-3.20 g/cm<sup>3</sup>

Melting Point: N/A

Evaporation Rate: N/A

### 4. Fire & Explosion Data

Flash Point: N/A

Auto Ignition: N/A

Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical

Special Fire Procedures: N/A

Unusual Hazards: N/A

### 5. Reactivity Data

Stable: Stable

Conditions to Avoid: N/A

Incompatibility: N/A

Hazardous Decomposition: Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur

### 6. Health Hazards

Routes of Entry: Eyes, inhalation and ingestion

Acute: Persistent cough and possible difficulty breathing.

Chronic: Chronic inhalation may cause pulmonary fibrosis

Signs & Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.

Carcinogenic: N/A

### 7. Emergency & First Aid Procedures

Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

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**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Sunset Gold**

**MSDS No:** 665 **Effective Date:** 1/1/96 **Amendatory Date:** 3/14/7

**1. Product Identification**

**Product Code:** 665

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	36.5	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	1317-80-2
Mica	43.5	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Tin Oxide	N/A	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	18282-10-5
Graphite	N/A	15b mg/m <sup>3</sup>	2.5c mg/m <sup>3</sup>	7782-42-5
Chromium hydroxide	N/A	N/A	N/A	1308-14-1
Iron Oxide FE 203	04.5	5u mg/m <sup>3</sup>	10d mg/m <sup>3</sup>	1309-37-1

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

**Boiling Point:** N/A

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Solubility in Water:** Not soluble

**Appearance & Odor:** Dark gold powder

**Specific Gravity:** 3.10-3.20 g/cm<sup>3</sup>

**Melting Point:** N/A

**Evaporation Rate:** N/A

**4. Fire & Explosion Data**

**Flash Point:** N/A

**Auto Ignition:** N/A

**Extinguishing Media:** Water spray, foam, carbon dioxide or dry chemical

**Special Fire Procedures:** N/A

**Unusual Hazards:** N/A

**5. Reactivity Data**

**Stable:** Stable

**Conditions to Avoid:** N/A

**Incompatibility:** N/A

**Hazardous Decomposition:** Carbon monoxide and carbon dioxide

**Hazardous Polymerization:** Will not occur

**6. Health Hazards**

**Routes of Entry:** Eyes, inhalation and ingestion

**Acute:** Persistent cough and possible difficulty breathing.

**Chronic:** Chronic inhalation may cause pulmonary fibrosis

**Signs & Symptoms of Exposure:** Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

**Medical Conditions Aggravated:** None known other than those that could be aggravated by dust exposure such as respiratory impairment.

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Carcinogenic: N/A

**7. Emergency & First Aid Procedures**

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Interference Red**

**MSDS No:** 670      **Effective Date:** 2/28/01      **Amendatory Date:** 3/14/7

**1. Product Identification**

**Product Code:** 670

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	44-48	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	13463-67-7
Mica	52-56	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Tin Oxide	1-2	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	18282-10-5

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

**Boiling Point:** N/A

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Solubility in Water:** Not soluble

**Appearance & Odor:** White powder

**Specific Gravity:** 3.10-3.20 g/cm<sup>3</sup>

**Melting Point:** N/A

**Evaporation Rate:** N/A

**4. Fire & Explosion Data**

**Flash Point:** N/A

**Auto Ignition:** N/A

**Extinguishing Media:** Water spray, foam, carbon dioxide or dry chemical

**Special Fire Procedures:** N/A

**Unusual Hazards:** N/A

**5. Reactivity Data**

**Stable:** Stable

**Conditions to Avoid:** N/A

**Incompatibility:** N/A

**Hazardous Decomposition:** Carbon monoxide and carbon dioxide

**Hazardous Polymerization:** Will not occur

**6. Health Hazards**

**Routes of Entry:** Eyes, inhalation and ingestion

**Acute:** Persistent cough and possible difficulty breathing.

**Chronic:** Chronic inhalation may cause pulmonary fibrosis

**Signs & Symptoms of Exposure:** Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

**Medical Conditions Aggravated:** None known other than those that could be aggravated by dust exposure such as respiratory impairment.

**Carcinogenic:** N/A

**7. Emergency & First Aid Procedures**

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**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Interference Green****MSDS No: 672      Effective Date: 1/1/96      Amendatory Date: 3/14/7****1. Product Identification**

Product Code: 672

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	57.0	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	1317-80-2
Mica	42.0	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Tin Oxide	01.1	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	18282-10-5
Graphite	N/A	15b mg/m <sup>3</sup>	2.5c mg/m <sup>3</sup>	7782-42-5
Chromium hydroxide	N/A	N/A	N/A	1308-14-1
Iron Oxide FE 203	N/A	5u mg/m <sup>3</sup>	10d mg/m <sup>3</sup>	1309-37-1

c. respirable dust; q. total dust and containing no asbestos and &lt;1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Solubility in Water: Not soluble

Appearance &amp; Odor: White powder

Specific Gravity: 3.10-3.20 g/cm<sup>3</sup>

Melting Point: N/A

Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A

Auto Ignition: N/A

Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical

Special Fire Procedures: N/A

Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable

Conditions to Avoid: N/A

Incompatibility: N/A

Hazardous Decomposition: Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion

Acute: Persistent cough and possible difficulty breathing.

Chronic: Chronic inhalation may cause pulmonary fibrosis

Signs &amp; Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.

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Carcinogenic: N/A

**7. Emergency & First Aid Procedures****Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.**Skin:** Wash affected area with soap and water.**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.**8. Special Precautions & Spill/Leak Procedures****Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.**9. Special Protection Information****Respiratory Protection:** NIOSH approved dust respirator**Ventilation:** Local exhaust**Protective Gloves:** Rubber or plastic**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations**Work/Hygienic Practices:** Follow general industrial hygiene**Notice to Reader**

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**Pearl Ex Interference Violet**

**MSDS No:** 673      **Effective Date:** 2/28/01      **Amendatory Date:** 3/14/7

1. **Product Identification**

Product Code: 673

2. **Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	48-52	10q mg/m3	10q mg/m3	13463-67-7
Mica	48-52	3c mg/m3	3c mg/m3	12001-26-2
Tin Oxide	<1	2 mg/m3	2 mg/m3	18282-10-5

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

3. **Physical & Chemical Characteristics**

Boiling Point: N/A  
 Vapor Pressure: N/A  
 Vapor Density: N/A  
 Solubility in Water: Not soluble  
 Appearance & Odor: Violet powder  
 Specific Gravity: 3.10-3.20 g/cm3  
 Melting Point: N/A  
 Evaporation Rate: N/A

4. **Fire & Explosion Data**

Flash Point: N/A  
 Auto Ignition: N/A  
 Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical  
 Special Fire Procedures: N/A  
 Unusual Hazards: N/A

5. **Reactivity Data**

Stable: Stable  
 Conditions to Avoid: N/A  
 Incompatibility: N/A  
 Hazardous Decomposition: Carbon monoxide and carbon dioxide  
 Hazardous Polymerization: Will not occur

6. **Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion  
 Acute: Persistent cough and possible difficulty breathing.  
 Chronic: Chronic inhalation may cause pulmonary fibrosis  
 Signs & Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.  
 Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.  
 Carcinogenic: N/A

7. **Emergency & First Aid Procedures**

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**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.  
**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.  
**Skin:** Wash affected area with soap and water.  
**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Interference Gold****MSDS No: 674****Effective Date: 2/28/01****Amendatory Date: 3/14/7****1. Product Identification****Product Code: 674****2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	40-44	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	13463-67-7
Mica	56-60	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Tin Oxide	<1	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	18282-10-5

c. respirable dust; q. total dust and containing no asbestos and &lt;1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics****Boiling Point: N/A****Vapor Pressure: N/A****Vapor Density: N/A****Solubility in Water: Not soluble****Appearance & Odor: White powder****Specific Gravity: 3.10-3.20 g/cm<sup>3</sup>****Melting Point: N/A****Evaporation Rate: N/A****4. Fire & Explosion Data****Flash Point: N/A****Auto Ignition: N/A****Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical****Special Fire Procedures: N/A****Unusual Hazards: N/A****5. Reactivity Data****Stable: Stable****Conditions to Avoid: N/A****Incompatibility: N/A****Hazardous Decomposition: Carbon monoxide and carbon dioxide****Hazardous Polymerization: Will not occur****6. Health Hazards****Routes of Entry: Eyes, inhalation and ingestion****Acute: Persistent cough and possible difficulty breathing.****Chronic: Chronic inhalation may cause pulmonary fibrosis****Signs & Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.****Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.****Carcinogenic: N/A****7. Emergency & First Aid Procedures**

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**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.  
**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.  
**Skin:** Wash affected area with soap and water.  
**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Duo Red-Blue**

MSDS No: 680      Effective Date: 2/28/01      Amendatory Date: 3/14/7

**1. Product Identification**

Product Code: 680

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	48-53	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	13463-67-7
Mica	47-52	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Tin Oxide	<1	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	18282-10-5
Blue absorptive pigment	<2	N/A	N/A	N/A

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A  
 Vapor Pressure: N/A  
 Vapor Density: N/A  
 Solubility in Water: Not soluble  
 Appearance & Odor: Pink powder  
 Specific Gravity: 3.10-3.20 g/cm<sup>3</sup>  
 Melting Point: N/A  
 Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A  
 Auto Ignition: N/A  
 Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical  
 Special Fire Procedures: N/A  
 Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable  
 Conditions to Avoid: N/A  
 Incompatibility: N/A  
 Hazardous Decomposition: Carbon monoxide and carbon dioxide  
 Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion  
 Acute: Persistent cough and possible difficulty breathing.  
 Chronic: Chronic inhalation may cause pulmonary fibrosis  
 Signs & Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.  
 Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.  
 Carcinogenic: N/A

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**7. Emergency & First Aid Procedures**

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin.

The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Duo Blue-Green**

MSDS No: 681      Effective Date: 2/28/01      Amendatory Date: 3/14/7

**1. Product Identification**

Product Code: 681

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	41.0	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	1317-80-2
Mica	56.5	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Tin Oxide	01.1	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	18282-10-5
Graphite	N/A	2.5c mg/m <sup>3</sup>	15b mg/m <sup>3</sup>	7782-42-5
Chromium hydroxide	00.9	N/A	N/A	1308-14-1
Iron Oxide FE 203	N/A	5u mg/m <sup>3</sup>	10d mg/m <sup>3</sup>	1309-37-1

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Solubility in Water: Not soluble

Appearance & Odor: Light blue powder

Specific Gravity: 3.10-3.20 g/cm<sup>3</sup>

Melting Point: N/A

Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A

Auto Ignition: N/A

Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical

Special Fire Procedures: N/A

Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable

Conditions to Avoid: N/A

Incompatibility: N/A

Hazardous Decomposition: Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion

Acute: Persistent cough and possible difficulty breathing.

Chronic: Chronic inhalation may cause pulmonary fibrosis

Signs & Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.

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Carcinogenic: N/A

**7. Emergency & First Aid Procedures**

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Bright Yellow****MSDS No: 683      Effective Date: 2/28/01      Amendatory Date: 3/14/7****1. Product Identification**

Product Code: 683

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium Dioxide	28.0	10q mg/m3	10q mg/m3	13463-67-7
Mica	47.6	3c mg/m3	3c mg/m3	12001-26-2

c. respirable dust; q. total dust and containing no asbestos and &lt;1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A  
Vapor Pressure: N/A  
Vapor Density: N/A  
Solubility in Water: Not soluble  
Appearance & Odor: Yellow powder  
Specific Gravity: N/A  
Melting Point: N/A  
Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A  
Auto Ignition: N/A  
Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical  
Special Fire Procedures: N/A  
Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable  
Conditions to Avoid: N/A  
Incompatibility: N/A  
Hazardous Decomposition: Carbon monoxide and carbon dioxide  
Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion  
Acute: Persistent cough and possible difficulty breathing.  
Chronic: Chronic inhalation may cause pulmonary fibrosis  
Signs & Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.  
Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.  
Carcinogenic: N/A

**7. Emergency & First Aid Procedures**

Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

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**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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27103-3066

**MSDS** **MATERIAL SAFETY DATA SHEET**  
 RUPERT, GIBBON & SPIDER PO BOX 425, HEALDSBURG CA, 95448 TEL: (707) 433-9577 FAX: (707) 433-4906

**Pearl Ex Flamingo Pink**

**MSDS No:** 684      **Effective Date:** 2/28/01      **Amendatory Date:** 3/14/7

**1. Product Identification**

Product Code: 684

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	22-28	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	13463-67-7
Mica	58-68	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
D+C Red #30	10-14	N/A	N/A	2379-74-0

c. respirable dust; q. total dust and containing no asbestos and &lt;1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Solubility in Water: Not soluble

Appearance &amp; Odor: Bright pink powder

Specific Gravity: 3.10-3.20 gm/cm<sup>3</sup>

Melting Point: N/A

Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A

Auto Ignition: N/A

Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical

Special Fire Procedures: N/A

Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable

Conditions to Avoid: N/A

Incompatibility: N/A

Hazardous Decomposition: Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion

Acute: Persistent cough and possible difficulty breathing.

Chronic: Chronic inhalation may cause pulmonary fibrosis

Signs &amp; Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.

Carcinogenic: N/A

**7. Emergency & First Aid Procedures**

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**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**27103-7331**

**MSDS** **MATERIAL SAFETY DATA SHEET**  
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**Pearl Ex Spring Green**

**MSDS No:** 685      **Effective Date:** 2/28/01      **Amendatory Date:** 3/14/7

**1. Product Identification**

Product Code: 685

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium Dioxide	50-94	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	13463-67-7
Mica	31-39	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
CrO	11-15	N/A	N/A	1308-38-9

c. respirable dust; q. total dust and containing no asbestos and &lt;1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

**Boiling Point:** N/A  
**Vapor Pressure:** N/A  
**Vapor Density:** N/A  
**Solubility in Water:** Not soluble  
**Appearance & Odor:** Green powder  
**Specific Gravity:** N/A  
**Melting Point:** N/A  
**Evaporation Rate:** N/A

**4. Fire & Explosion Data**

**Flash Point:** N/A  
**Auto Ignition:** N/A  
**Extinguishing Media:** Water spray, foam, carbon dioxide or dry chemical  
**Special Fire Procedures:** N/A  
**Unusual Hazards:** N/A

**5. Reactivity Data**

**Stable:** Stable  
**Conditions to Avoid:** N/A  
**Incompatibility:** N/A  
**Hazardous Decomposition:** Carbon monoxide and carbon dioxide  
**Hazardous Polymerization:** Will not occur

**6. Health Hazards**

**Routes of Entry:** Eyes, inhalation and ingestion  
**Acute:** Persistent cough and possible difficulty breathing.  
**Chronic:** Chronic inhalation may cause pulmonary fibrosis  
**Signs & Symptoms of Exposure:** Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.  
**Medical Conditions Aggravated:** None known other than those that could be aggravated by dust exposure such as respiratory impairment.  
**Carcinogenic:** N/A

**7. Emergency & First Aid Procedures**

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**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Turquoise**

**MSDS No:** 686      **Effective Date:** 2/28/01      **Amendatory Date:** 3/14/7

**1. Product Identification**  
**Product Code:** 686

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	35.0	10q mg/m <sup>3</sup>	15q mg/m <sup>3</sup>	13463-67-7
Mica	38.6	3c mg/m <sup>3</sup>	20c mg/m <sup>3</sup>	12001-26-2

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

**Boiling Point:** N/A  
**Vapor Pressure:** N/A  
**Vapor Density:** N/A  
**Solubility in Water:** Not soluble  
**Appearance & Odor:** Blue powder  
**Specific Gravity:** 3.10-3.20 g/cm<sup>3</sup>  
**Melting Point:** N/A  
**Evaporation Rate:** N/A

**4. Fire & Explosion Data**

**Flash Point:** N/A  
**Auto Ignition:** N/A  
**Extinguishing Media:** Water spray, foam, carbon dioxide or dry chemical  
**Special Fire Procedures:** N/A  
**Unusual Hazards:** N/A

**5. Reactivity Data**

**Stable:** Stable  
**Conditions to Avoid:** N/A  
**Incompatibility:** N/A  
**Hazardous Decomposition:** Carbon monoxide and carbon dioxide  
**Hazardous Polymerization:** Will not occur

**6. Health Hazards**

**Routes of Entry:** Eyes, inhalation and ingestion  
**Acute:** Persistent cough and possible difficulty breathing.  
**Chronic:** Chronic inhalation may cause pulmonary fibrosis  
**Signs & Symptoms of Exposure:** Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.  
**Medical Conditions Aggravated:** None known other than those that could be aggravated by dust exposure such as respiratory impairment.  
**Carcinogenic:** N/A

**7. Emergency & First Aid Procedures**

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**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.  
**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.  
**Skin:** Wash affected area with soap and water.  
**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**27103-5281**

**MSDS** **MATERIAL SAFETY DATA SHEET**  
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**Pearl Ex True Blue**

**MSDS No:** 687      **Effective Date:** 2/28/01      **Amendatory Date:** 3/14/7

**1. Product Identification**

Product Code: 687

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	48-53	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	13463-67-7
Mica	46-51	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
Tin Oxide	<1	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	18282-10-5
Blue absorptive pigment	≤1	N/A	N/A	N/A

c. respirable dust; q. total dust and containing no asbestos and &lt;1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A  
 Vapor Pressure: N/A  
 Vapor Density: N/A  
 Solubility in Water: Not soluble  
 Appearance & Odor: Blue powder  
 Specific Gravity: 3.10-3.20 g/cm<sup>3</sup>  
 Melting Point: N/A  
 Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A  
 Auto Ignition: N/A  
 Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical  
 Special Fire Procedures: N/A  
 Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable  
 Conditions to Avoid: N/A  
 Incompatibility: N/A  
 Hazardous Decomposition: Carbon monoxide and carbon dioxide  
 Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion  
 Acute: Persistent cough and possible difficulty breathing.  
 Chronic: Chronic inhalation may cause pulmonary fibrosis  
 Signs & Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.  
 Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.  
 Carcinogenic: N/A

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7. **Emergency & First Aid Procedures**

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

8. **Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately. observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

9. **Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**27103-6041**

**MSDS** **MATERIAL SAFETY DATA SHEET**  
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**Pearl Ex Misty Lavender**

**MSDS No:** 688      **Effective Date:** 2/28/01      **Amendatory Date:** 3/14/7

**1. Product Identification**

Product Code: 688

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Titanium dioxide	41-48	10q mg/m <sup>3</sup>	10q mg/m <sup>3</sup>	13463-67-7
Mica	50-58	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2
D+C Red #30	1	N/A	N/A	2379-74-0
Carmines	1-2	N/A	N/A	1390-65-4

c. respirable dust; q. total dust and containing no asbestos and &lt;1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

Boiling Point: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Solubility in Water: Not soluble

Appearance &amp; Odor: Purple powder

Specific Gravity: N/A

Melting Point: N/A

Evaporation Rate: N/A

**4. Fire & Explosion Data**

Flash Point: N/A

Auto Ignition: N/A

Extinguishing Media: Water spray, foam, carbon dioxide or dry chemical

Special Fire Procedures: N/A

Unusual Hazards: N/A

**5. Reactivity Data**

Stable: Stable

Conditions to Avoid: N/A

Incompatibility: N/A

Hazardous Decomposition: Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur

**6. Health Hazards**

Routes of Entry: Eyes, inhalation and ingestion

Acute: Persistent cough and possible difficulty breathing.

Chronic: Chronic inhalation may cause pulmonary fibrosis

Signs &amp; Symptoms of Exposure: Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

Medical Conditions Aggravated: None known other than those that could be aggravated by dust exposure such as respiratory impairment.

Carcinogenic: N/A

**7. Emergency & First Aid Procedures**

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**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Blue Russet**

**MSDS No:** 689      **Effective Date:** 2/28/01      **Amendatory Date:** 3/14/7

**1. Product Identification**

**Product Code:** 689

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
Iron (III) Oxide	46-50	5u mg/m <sup>3</sup>	10d mg/m <sup>3</sup>	1309-37-1
Mica	50-54	3c mg/m <sup>3</sup>	3c mg/m <sup>3</sup>	12001-26-2

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

**Boiling Point:** N/A

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Solubility in Water:** Not soluble

**Appearance & Odor:** Bluish-red powder

**Specific Gravity:** 3.10-3.20 g/cm<sup>3</sup>

**Melting Point:** N/A

**Evaporation Rate:** N/A

**4. Fire & Explosion Data**

**Flash Point:** N/A

**Auto Ignition:** N/A

**Extinguishing Media:** Water spray, foam, carbon dioxide or dry chemical

**Special Fire Procedures:** N/A

**Unusual Hazards:** N/A

**5. Reactivity Data**

**Stable:** Stable

**Conditions to Avoid:** N/A

**Incompatibility:** N/A

**Hazardous Decomposition:** Carbon monoxide and carbon dioxide

**Hazardous Polymerization:** Will not occur

**6. Health Hazards**

**Routes of Entry:** Eyes, inhalation and ingestion

**Acute:** Persistent cough and possible difficulty breathing.

**Chronic:** Chronic inhalation may cause pulmonary fibrosis

**Signs & Symptoms of Exposure:** Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

**Medical Conditions Aggravated:** None known other than those that could be aggravated by dust exposure such as respiratory impairment.

**Carcinogenic:** N/A

**7. Emergency & First Aid Procedures**

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

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**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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**Pearl Ex Sparkling Copper**

**MSDS No:** 690 **Effective Date:** 2/28/01 **Amendatory Date:** 3/14/7

**1. Product Identification**

**Product Code:** 690

**2. Composition/Information on Ingredients**

Ingredients	%	ACGTH-TLV	OSHA-PEL	CAS No.
FE2O3	12	N/A	N/A	N/A
Mica	88	3c mg/m3	3c mg/m3	12001-26-2

c. respirable dust; q. total dust and containing no asbestos and <1% free silica; N/A Not Available

**3. Physical & Chemical Characteristics**

**Boiling Point:** N/A

**Vapor Pressure:** N/A

**Vapor Density:** N/A

**Solubility in Water:** Not soluble

**Appearance & Odor:** Orange powder

**Specific Gravity:** N/A

**Melting Point:** N/A

**Evaporation Rate:** N/A

**4. Fire & Explosion Data**

**Flash Point:** N/A

**Auto Ignition:** N/A

**Extinguishing Media:** Water spray, foam, carbon dioxide or dry chemical

**Special Fire Procedures:** N/A

**Unusual Hazards:** N/A

**5. Reactivity Data**

**Stable:** Stable

**Conditions to Avoid:** N/A

**Incompatibility:** N/A

**Hazardous Decomposition:** Carbon monoxide and carbon dioxide

**Hazardous Polymerization:** Will not occur

**6. Health Hazards**

**Routes of Entry:** Eyes, inhalation and ingestion

**Acute:** Persistent cough and possible difficulty breathing.

**Chronic:** Chronic inhalation may cause pulmonary fibrosis

**Signs & Symptoms of Exposure:** Dust may cause mechanical irritation to the eyes and respiratory tract. May cause pulmonary fibrosis and permanent damage when ingested in large quantities over long periods of time.

**Medical Conditions Aggravated:** None known other than those that could be aggravated by dust exposure such as respiratory impairment.

**Carcinogenic:** N/A

**7. Emergency & First Aid Procedures**

**Inhalation:** Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

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**Eyes:** Immediately flush with plenty of water for at least 15 minutes. If discomfort persists, get medical attention.

**Skin:** Wash affected area with soap and water.

**Ingestion:** Do NOT induce vomiting. If victim is conscious and alert, give 2-4 glasses of milk or water. Get medical attention.

**8. Special Precautions & Spill/Leak Procedures**

**Handling & Storage:** Wash thoroughly after handling. Remove contaminated clothing and wash it before reuse. Provide adequate ventilation. Keep container tightly closed to minimize dust generation. Avoid ingestion, inhalation and contact with eyes and skin. The packages should be sound and puncture-proof, press-proof and damp-proof. Store in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material and place it into a suitable disposal container. Clean up spills immediately, observe precautions in Protective Equipment section. Avoid generating the phenomenon of dust. Provide ventilation.

**Waste Disposal:** Dispose of in accordance with all state, local and federal regulations.

**9. Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles.

**Other Protection:** plastic apron, sleeves and boots if handling large quantities. Safety showers and eyewash stations

**Work/Hygienic Practices:** Follow general industrial hygiene

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