

**27103-0039**

**MSDS** **MATERIAL SAFETY DATA SHEET**  
 RUPERT, GIBBON & 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 <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 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 to minimize dust generation. Avoid ingestion, inhalation. The packages should be sound and puncture-proof in a dry, well ventilated place.

**Steps if Spilled:** Vacuum or sweep up material into a container. Clean up spills immediately. observe proper disposal section. Avoid generating the phenomenon of dust.

**Waste Disposal:** Dispose of in accordance with applicable regulations.

9. **Special Protection Information**

**Respiratory Protection:** NIOSH approved dust respirator

**Ventilation:** Local exhaust

**Protective Gloves:** Rubber or plastic

**Eye Protection:** Wear appropriate protective eye equipment

**Other Protection:** plastic apron, sleeves and boot covers, showers and eyewash stations

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

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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 &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: 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 &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 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/m <sup>3</sup>	10q mg/m <sup>3</sup>	1317-80-2
Mica	70.0	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	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: Light 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 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 5mg/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 <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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**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**Notice to Reader**

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