

27103-1129

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

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 ³	10q mg/m ³	1317-80-2
Mica	61-65	3c mg/m ³	3c mg/m ³	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 ³	10q mg/m ³	1317-70-0
Mica	85-89	3c mg/m ³	3c mg/m ³	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: 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 & 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 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/m3	3c mg/m3	12001-26-2
Iron (III) Oxide	43-47	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: Reddish-orange 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

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 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 ³	3c mg/m ³	12001-26-2
Iron (III) Oxide	29-33	5u mg/m ³	10d mg/m ³	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/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

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 ³	10q mg/m ³	13463-67-7
Mica	57-64	3c mg/m ³	3c mg/m ³	12001-26-2
Tin Oxide	<1	2 mg/m ³	2 mg/m ³	18282-10-5
Iron Oxide FE 203	1-4	5u mg/m ³	10d mg/m ³	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/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

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RUPERT, GIBBON & SPIDER PO BOX 425, HEALDSBURG CA, 95448 TEL: (707) 433-9577 FAX: (707) 433-4906**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 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 ³	10q mg/m ³	1317-80-2
Mica	70.0	3c mg/m ³	3c mg/m ³	12001-26-2
Tin Oxide	N/A	2 mg/m ³	2 mg/m ³	18282-10-5
Graphite	N/A	15b mg/m ³	2.5c mg/m ³	7782-42-5
Chromium hydroxide	N/A	N/A	N/A	1308-14-1
Iron Oxide FE 203	04.5	5u mg/m ³	10d mg/m ³	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.

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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 ³	10q mg/m ³	1317-70-0
Mica	69-73	3c mg/m ³	3c mg/m ³	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/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 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 ³	3c mg/m ³	12001-26-2
Iron (III) Oxide	35-39	5u mg/m ³	10d mg/m ³	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/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

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 ³	10q mg/m ³	1317-80-2
Mica	43.5	3c mg/m ³	3c mg/m ³	12001-26-2
Tin Oxide	N/A	2 mg/m ³	2 mg/m ³	18282-10-5
Graphite	N/A	15b mg/m ³	2.5c mg/m ³	7782-42-5
Chromium hydroxide	N/A	N/A	N/A	1308-14-1
Iron Oxide FE 203	04.5	5u mg/m ³	10d mg/m ³	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/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.

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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 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/m ³	10q mg/m ³	13463-67-7
Mica	48-52	3c mg/m ³	3c mg/m ³	12001-26-2
Tin Oxide	<1	2 mg/m ³	2 mg/m ³	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/m3	10q mg/m3	13463-67-7
Mica	56-60	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: White 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 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 ³	10q mg/m ³	13463-67-7
Mica	47-52	3c mg/m ³	3c mg/m ³	12001-26-2
Tin Oxide	<1	2 mg/m ³	2 mg/m ³	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/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

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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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