



# METALLIC PIGMENT



**Product code: SNOW**

**Version 1.0-2020**

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

### 1.1 Product Identifier

**Trade name: SNOW**

**Trade code: #651**

**CAS number: 12001-26-2/13463-67-7**

### 1.2 Relevant identified uses of the substance/mixture and uses advised against

**Identified uses:** Coloring agent

### 1.3 Details of the supplier of the safety data sheet

**Company Name:** PENNTEK INDUSTRIAL COATINGS

**Address:** 7850 Lakeville BLVD Lakeville MN 55044

**Telephone:** 952-236-0455

### 1.4 Emergency telephone number

**Telephone companies:** Poison Control 800-222-1222

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

This substance is not classified as dangerous according to European Union Legislation.

### 2.2 Label elements

**Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:**

Properties / Symbols: S-phrases) 22 Do not breathe dust.

**EC regulation criteria 1272/2008 (CLP):**

Precautionary statements: P260 Do not breathe dust.

No special labeling needed.

### 2.3 Other hazards

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Ingredients	Chemical Name	CAS No.	CI Name	Weight in Percentage (%)
Mica	Mica	12001-26-2	CI 77019	63 ~ 86
TiO <sub>2</sub>	Titanium dioxide	13463-67-7	CI 77891	14 ~ 37

No components that are liable to disclose according to Regulation (EC) No.1907/2006.



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**4. FIRST AID MEASURES****4.1 Description of first aid measures**

**In case of skin contact:** Wash off with soap and plenty of water.

**In case of eyes contact:** Immediately flush with plenty of water about 15 minutes.

If discomfort persists, get medical aid.

**In case of Ingestion:** If victim is induce vomiting, give 2-4 cupfuls of water, get medical aid.

**In case of Inhalation:** Move person to fresh air. Consult doctor in the event of any complaints.

**4.2 Most important symptoms and effects, both acute and delayed**

We have no description of any toxic symptoms.

**4.3 Indication of any immediate medical attention and special treatment needed**

No information available.

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**5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media**

Use extinguishing measures that are in accordance with the local regulations.

For this substance/mixture no limitations of extinguishing agents are given.

**5.2 Special hazards arising from the substance or mixture**

Not combustible.

Ambient fire may liberate hazardous vapours.

**5.3 Advice for fire-fighters**

IN the event of fire, wear self-contained breathing apparatus.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

See protective measures under point 7 and 8.

**6.2 Environmental precautions**

Don't let product enter drains.

**6.3 Methods and material for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7.2 and 10.5).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

**6.4 Reference to other sections**

See also section 8 and 13.

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**7. HANDLING AND STORAGE****7.1 Precautions for safe handling:**

Prevent formation of dust

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Any unavoidable deposit of dust must be regularly removed.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool and dry, keep packages closed, location away from other material.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific use are stipulated.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****8.2 Exposure controls**

**Eye/face protection:** Safety glasses.

**Skin protection:**

Hand protection: Not required.

Body protection: Protective work clothing.

Other protection: Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled.

**Hygiene measures:** Change contaminated clothing. Wash hands after working with substance.

**Respiratory protection:**

Required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

**Thermal Hazards:** No information available.

**Environmental exposure controls:** Don't let product enter drains.

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**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Appearance:</b>	Powder.
<b>colour:</b>	White powder with iridescence
<b>Odour:</b>	Odourless.
<b>Odour threshold:</b>	No information available.
<b>pH:</b>	5 ~ 9 (10% aqueous slurry).
<b>Melting point:</b>	No information available.
<b>Boiling point:</b>	No information available.
<b>Solid/gas flammability:</b>	No information available.
<b>Lower explosive limit:</b>	No information available.
<b>Upper explosive limit:</b>	No information available.
<b>Vapour density:</b>	No information available.
<b>Flash point:</b>	Not applicable.

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<b>Evaporation rate:</b>	No information available.
<b>Vapour pressure:</b>	No information available.
<b>Relative density:</b>	2.4 ~ 3.0 g/cm <sup>3</sup> .
<b>Solubility in water:</b>	Insoluble.
<b>Lipid solubility:</b>	Insoluble.
<b>Partition coefficient (n-octanol/water):</b>	No information available.
<b>Auto-ignition temperature:</b>	No information available.
<b>Decomposition temperature:</b>	No information available.
<b>Viscosity:</b>	No information available.
<b>Explosive properties:</b>	No information available.
<b>Oxidizing properties:</b>	No information available.
<b>9.2 Other information</b>	
<b>Bulk density:</b>	15 ~ 21 g/100ml.
<b>Particle size:</b>	5-25 µm.

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**10. STABILITY AND REACTIVITY****10.1 Reactivity**

No information available.

**10.2 Chemical stability**

Stable under standard ambient conditions(room temperature).

**10.3 Possibility of hazardous reactions**

No information available.

**10.4 Conditions to avoid**

Not known to date.

**10.5 Incompatible materials**

No information available.

**10.6 Hazardous decomposition products**

No information available.

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**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Aspiration hazard**

Based on available data the classification criteria are not met.

**Specific target organ toxicity – single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Specific target organ toxicity – repeated exposure**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**11.2 Other information**

**Product code:SNOW****Version 1.0-2020**

Quantitative data on the toxicity of this product are not available.  
Hazardous properties can not be excluded, but are relatively improbable due to the compound's poor water solubility.  
Our own experience has provided no indication of any hazardous potential.  
Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

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**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

No information available.

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**12.6 Other adverse effects**

Discharge into the environment must be avoided.

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**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations.

Leave chemicals in original containers. Do not mix with other waste.

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**14. TRANSPORT INFORMATION****14.1 Land transport (ADR/RID/GGVSE)**

Not classified as dangerous in the meaning of transport regulations.

**14.2 Sea transport(IMDG-Code/GGVSee)**

Not classified as dangerous in the meaning of transport regulations.

**14.3 Air transport (ICAO-IATA/DGR)**

Not classified as dangerous in the meaning of transport regulations.

**14.4 Special Precautions for User**

No information available.

**14.5 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not relevant.

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**METALLIC PIGMENT****Product code: SNOW****Version 1.0-2020****15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

Major Accident Hazard Legislation: Directive 96/82/EC does not apply.

**National legislation**

Storage class: 10 – 13.

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

**16. OTHER INFORMATION****16.1 Key or legend to abbreviations and acronyms used in the safety data sheet**

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

**16.2 Training advice**

Provide adequate information, instruction and training for operators.

**The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.**

**This SDS cancels and replaces any preceding release.**



# METALLIC PIGMENT



Product code: Pearl Ex #655 Super Copper

Version 1.0-2020

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

### 1.1 Product Identifier

Trade name: Pearl Ex #655 Super Copper

Trade code: #655

CAS number: 12001-26-2/1309-37-1

### 1.2 Relevant identified uses of the substance/mixture and uses advised against

Identified uses: Coloring agent

### 1.3 Details of the supplier of the safety data sheet

Company Name: PENNTEK INDUSTRIAL COATINGS

Address: 7850 Lakeville BLVD Lakeville MN 55044

Telephone: 952-236-9305

### 1.4 Emergency telephone number

Telephone companies: Poison Control 800-222-1222

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

This substance is not classified as dangerous according to European Union Legislation.

### 2.2 Label elements

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols: S-phrases) 22 Do not breathe dust.

EC regulation criteria 1272/2008 (CLP):

Precautionary statements: P260 Do not breathe dust.

No special labeling needed.

### 2.3 Other hazards

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Ingredients	Chemical Name	CAS No.	CI Name	Weight in Percentage (%)
Mica	Mica	12001-26-2	CI 77019	63 ~ 71
Fe <sub>2</sub> O <sub>3</sub>	Diiron Trioxide	1309-37-1	CI 77491	29 ~ 37

No components that are liable to disclose according to Regulation (EC) No.1907/2006.



Product code: Pearl Ex #655 Super Copper

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**4. FIRST AID MEASURES****4.1 Description of first aid measures**

**In case of skin contact:** Wash off with soap and plenty of water.

**In case of eyes contact:** Immediately flush with plenty of water about 15 minutes.

If discomfort persists, get medical aid.

**In case of Ingestion:** If victim is induce vomiting, give 2-4 cupfuls of water, get medical aid.

**In case of Inhalation:** Move person to fresh air. Consult doctor in the event of any complaints.

**4.2 Most important symptoms and effects, both acute and delayed**

We have no description of any toxic symptoms.

**4.3 Indication of any immediate medical attention and special treatment needed**

No information available.

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**5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media**

Use extinguishing measures that are in accordance with the local regulations.

For this substance/mixture no limitations of extinguishing agents are given.

**5.2 Special hazards arising from the substance or mixture**

Not combustible.

Ambient fire may liberate hazardous vapours.

**5.3 Advice for fire-fighters**

IN the event of fire, wear self-contained breathing apparatus.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

See protective measures under point 7 and 8.

**6.2 Environmental precautions**

Don't let product enter drains.

**6.3 Methods and material for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7.2 and 10.5).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

**6.4 Reference to other sections**

See also section 8 and 13.

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**7. HANDLING AND STORAGE****7.1 Precautions for safe handling:**

Prevent formation of dust



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Any unavoidable deposit of dust must be regularly removed.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool and dry, keep packages closed, location away from other material.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific use are stipulated.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****8.2 Exposure controls**

**Eye/face protection:** Safety glasses.

**Skin protection:**

Hand protection: Not required.

Body protection: Protective work clothing.

Other protection: Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled.

**Hygiene measures:** Change contaminated clothing. Wash hands after working with substance.

**Respiratory protection:**

Required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

**Thermal Hazards:** No information available.

**Environmental exposure controls:** Don't let product enter drains.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Appearance:</b>	Powder.
<b>colour:</b>	Pearlescent red powder
<b>Odour:</b>	Odourless.
<b>Odour threshold:</b>	No information available.
<b>pH:</b>	5 ~ 9 (10% aqueous slurry).
<b>Melting point:</b>	No information available.
<b>Boiling point:</b>	No information available.
<b>Solid/gas flammability:</b>	No information available.
<b>Lower explosive limit:</b>	No information available.
<b>Upper explosive limit:</b>	No information available.
<b>Vapour density:</b>	No information available.
<b>Flash point:</b>	Not applicable.



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<b>Evaporation rate:</b>	No information available.
<b>Vapour pressure:</b>	No information available.
<b>Relative density:</b>	2.6 ~ 3.2 g/cm <sup>3</sup> .
<b>Solubility in water:</b>	Insoluble.
<b>Lipid solubility:</b>	Insoluble.
<b>Partition coefficient (n-octanol/water):</b>	No information available.
<b>Auto-ignition temperature:</b>	No information available.
<b>Decomposition temperature:</b>	No information available.
<b>Viscosity:</b>	No information available.
<b>Explosive properties:</b>	No information available.
<b>Oxidizing properties:</b>	No information available.
<b>9.2 Other information</b>	
<b>Bulk density:</b>	20 ~ 26 g/100ml.
<b>Particle size:</b>	10-100 µm.

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**10. STABILITY AND REACTIVITY****10.1 Reactivity**

No information available.

**10.2 Chemical stability**

Stable under standard ambient conditions(room temperature).

**10.3 Possibility of hazardous reactions**

No information available.

**10.4 Conditions to avoid**

Not known to date.

**10.5 Incompatible materials**

No information available.

**10.6 Hazardous decomposition products**

No information available.

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**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Aspiration hazard**

Based on available data the classification criteria are not met.

**Specific target organ toxicity – single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Specific target organ toxicity – repeated exposure**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**11.2 Other information**

**Product code: Pearl Ex #655 Super Copper****Version 1.0-2020**

Quantitative data on the toxicity of this product are not available.  
Hazardous properties can not be excluded, but are relatively improbable due to the compound's poor water solubility.  
Our own experience has provided no indication of any hazardous potential.  
Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

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**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

No information available.

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**12.6 Other adverse effects**

Discharge into the environment must be avoided.

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**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations.

Leave chemicals in original containers. Do not mix with other waste.

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**14. TRANSPORT INFORMATION****14.1 Land transport (ADR/RID/GGVSE)**

Not classified as dangerous in the meaning of transport regulations.

**14.2 Sea transport (IMDG-Code/GGVSee)**

Not classified as dangerous in the meaning of transport regulations.

**14.3 Air transport (ICAO-IATA/DGR)**

Not classified as dangerous in the meaning of transport regulations.

**14.4 Special Precautions for User**

No information available.

**14.5 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not relevant.

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**METALLIC PIGMENT****Product code: Pearl Ex #655 Super Copper****Version 1.0-2020**

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**15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

Major Accident Hazard Legislation: Directive 96/82/EC does not apply.

**National legislation**

Storage class: 10 – 13.

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

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**16. OTHER INFORMATION****16.1 Key or legend to abbreviations and acronyms used in the safety data sheet**Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).**16.2 Training advice**

Provide adequate information, instruction and training for operators.

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**The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.**

**This SDS cancels and replaces any preceding release.**



# METALLIC PIGMENT



Product code: Pearl Ex #657 Sparkle Gold

Version 1.0-2020

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

### 1.1 Product Identifier

Trade name: Pearl Ex #657 Sparkle Gold

Trade code: #657

CAS number: 12001-26-2/13463-67-7/1309-37-1

### 1.2 Relevant identified uses of the substance/mixture and uses advised against

Identified uses: Coloring agent

### 1.3 Details of the supplier of the safety data sheet

Company Name: PENNTEK INDUSTRIAL COATINGS

Address: 7850 Lakeville BLVD Lakeville MN 55044

Telephone: 952-236-9305

### 1.4 Emergency telephone number

Telephone companies: Poison Control 800-222-1222

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

This substance is not classified as dangerous according to European Union Legislation.

### 2.2 Label elements

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols: S-phrases) 22 Do not breathe dust.

EC regulation criteria 1272/2008 (CLP):

Precautionary statements: P260 Do not breathe dust.

No special labeling needed.

### 2.3 Other hazards

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Ingredients	Chemical Name	CAS No.	CI Name	Weight in Percentage (%)
Mica	Mica	12001-26-2	CI 77019	52 ~ 68
TiO <sub>2</sub>	Titanium dioxide	13463-67-7	CI 77891	18 ~ 26
Fe <sub>2</sub> O <sub>3</sub>	Diiron Trioxide	1309-37-1	CI 77491	14 ~ 22

No components that are liable to disclose according to Regulation (EC) No.1907/2006.



Product code: Pearl Ex #657 Sparkle Gold

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**4. FIRST AID MEASURES****4.1 Description of first aid measures**

**In case of skin contact:** Wash off with soap and plenty of water.

**In case of eyes contact:** Immediately flush with plenty of water about 15 minutes.

If discomfort persists, get medical aid.

**In case of Ingestion:** If victim is induce vomiting, give 2-4 cupfuls of water, get medical aid.

**In case of Inhalation:** Move person to fresh air. Consult doctor in the event of any complaints.

**4.2 Most important symptoms and effects, both acute and delayed**

We have no description of any toxic symptoms.

**4.3 Indication of any immediate medical attention and special treatment needed**

No information available.

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**5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media**

Use extinguishing measures that are in accordance with the local regulations.

For this substance/mixture no limitations of extinguishing agents are given.

**5.2 Special hazards arising from the substance or mixture**

Not combustible.

Ambient fire may liberate hazardous vapours.

**5.3 Advice for fire-fighters**

IN the event of fire, wear self-contained breathing apparatus.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

See protective measures under point 7 and 8.

**6.2 Environmental precautions**

Don't let product enter drains.

**6.3 Methods and material for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7.2 and 10.5).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

**6.4 Reference to other sections**

See also section 8 and 13.

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**7. HANDLING AND STORAGE****7.1 Precautions for safe handling:**

Prevent formation of dust



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Any unavoidable deposit of dust must be regularly removed.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool and dry, keep packages closed, location away from other material.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific use are stipulated.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

### 8.2 Exposure controls

**Eye/face protection:** Safety glasses.

**Skin protection:**

Hand protection: Not required.

Body protection: Protective work clothing.

Other protection: Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled.

**Hygiene measures:** Change contaminated clothing. Wash hands after working with substance.

#### **Respiratory protection:**

Required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

**Thermal Hazards:** No information available.

**Environmental exposure controls:** Don't let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance:</b>	Powder.
<b>colour:</b>	Pearlescent gold powder
<b>Odour:</b>	Odourless.
<b>Odour threshold:</b>	No information available.
<b>pH:</b>	5 ~ 9 (10% aqueous slurry).
<b>Melting point:</b>	No information available.
<b>Boiling point:</b>	No information available.
<b>Solid/gas flammability:</b>	No information available.
<b>Lower explosive limit:</b>	No information available.
<b>Upper explosive limit:</b>	No information available.
<b>Vapour density:</b>	No information available.
<b>Flash point:</b>	Not applicable.



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<b>Evaporation rate:</b>	No information available.
<b>Vapour pressure:</b>	No information available.
<b>Relative density:</b>	2.5 ~ 3.1 g/cm <sup>3</sup> .
<b>Solubility in water:</b>	Insoluble.
<b>Lipid solubility:</b>	Insoluble.
<b>Partition coefficient (n-octanol/water):</b>	No information available.
<b>Auto-ignition temperature:</b>	No information available.
<b>Decomposition temperature:</b>	No information available.
<b>Viscosity:</b>	No information available.
<b>Explosive properties:</b>	No information available.
<b>Oxidizing properties:</b>	No information available.

**9.2 Other information**

<b>Bulk density:</b>	20 ~ 26 g/100ml.
<b>Particle size:</b>	10-60 µm.

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**10. STABILITY AND REACTIVITY****10.1 Reactivity**

No information available.

**10.2 Chemical stability**

Stable under standard ambient conditions(room temperature).

**10.3 Possibility of hazardous reactions**

No information available.

**10.4 Conditions to avoid**

Not known to date.

**10.5 Incompatible materials**

No information available.

**10.6 Hazardous decomposition products**

No information available.

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**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Aspiration hazard**

Based on available data the classification criteria are not met.

**Specific target organ toxicity – single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Specific target organ toxicity – repeated exposure**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**11.2 Other information**



**Product code: Pearl Ex #657 Sparkle Gold****Version 1.0-2020**

Quantitative data on the toxicity of this product are not available.  
Hazardous properties can not be excluded, but are relatively improbable due to the compound's poor water solubility.  
Our own experience has provided no indication of any hazardous potential.  
Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

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**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

No information available.

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**12.6 Other adverse effects**

Discharge into the environment must be avoided.

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**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations.

Leave chemicals in original containers. Do not mix with other waste.

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**14. TRANSPORT INFORMATION****14.1 Land transport (ADR/RID/GGVSE)**

Not classified as dangerous in the meaning of transport regulations.

**14.2 Sea transport (IMDG-Code/GGVSee)**

Not classified as dangerous in the meaning of transport regulations.

**14.3 Air transport (ICAO-IATA/DGR)**

Not classified as dangerous in the meaning of transport regulations.

**14.4 Special Precautions for User**

No information available.

**14.5 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not relevant.

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**METALLIC PIGMENT****Product code: Pearl Ex #657 Sparkle Gold****Version 1.0-2020****15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

Major Accident Hazard Legislation: Directive 96/82/EC does not apply.

**National legislation**

Storage class: 10 – 13.

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

**16. OTHER INFORMATION****16.1 Key or legend to abbreviations and acronyms used in the safety data sheet**

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

**16.2 Training advice**

Provide adequate information, instruction and training for operators.

**The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.**

**This SDS cancels and replaces any preceding release.**



# METALLIC PIGMENT



Product code: Pearl Ex #662 Antique Silver

Version 1.0-2020

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

### 1.1 Product Identifier

Trade name: Pearl Ex #662 Antique Silver

Trade code: #662

CAS number: 12001-26-2/13463-67-7/147-14-8

### 1.2 Relevant identified uses of the substance/mixture and uses advised against

Identified uses: Coloring Agent

### 1.3 Details of the supplier of the safety data sheet

Company Name: PENNTEK INDUSTRIAL COATINGS

Address: 7850 Lakeville BLVD Lakeville MN 55044

Telephone: 952-236-9305

### 1.4 Emergency telephone number

Telephone companies: Poison Control 800-222-1222

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

This substance is not classified as dangerous according to European Union Legislation.

### 2.2 Label elements

Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:

Properties / Symbols: S-phrases) 22 Do not breathe dust.

EC regulation criteria 1272/2008 (CLP):

Precautionary statements: P260 Do not breathe dust.

No special labeling needed.

### 2.3 Other hazards

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Ingredients	Chemical Name	CAS No.	CI Name	Weight in Percentage (%)
Mica	Mica	12001-26-2	CI 77019	67 ~ 78
TiO <sub>2</sub>	Titanium dioxide	13463-67-7	CI 77891	22 ~ 30
Pigment black 7	Pigment black 7	147-14-8	CI 74160	≤ 3

No components that are liable to disclose according to Regulation (EC) No.1907/2006.



Product code: Pearl Ex #662 Antique Silver

Version 1.0-2020

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**4. FIRST AID MEASURES****4.1 Description of first aid measures**

**In case of skin contact:** Wash off with soap and plenty of water.

**In case of eyes contact:** Immediately flush with plenty of water about 15 minutes.

If discomfort persists, get medical aid.

**In case of Ingestion:** If victim is induce vomiting, give 2-4 cupfuls of water, get medical aid.

**In case of Inhalation:** Move person to fresh air. Consult doctor in the event of any complaints.

**4.2 Most important symptoms and effects, both acute and delayed**

We have no description of any toxic symptoms.

**4.3 Indication of any immediate medical attention and special treatment needed**

No information available.

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**5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media**

Use extinguishing measures that are in accordance with the local regulations.

For this substance/mixture no limitations of extinguishing agents are given.

**5.2 Special hazards arising from the substance or mixture**

Not combustible.

Ambient fire may liberate hazardous vapours.

**5.3 Advice for fire-fighters**

IN the event of fire, wear self-contained breathing apparatus.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

See protective measures under point 7 and 8.

**6.2 Environmental precautions**

Don't let product enter drains.

**6.3 Methods and material for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7.2 and 10.5).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

**6.4 Reference to other sections**

See also section 8 and 13.

---

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling:**

Prevent formation of dust

**Product code: Pearl Ex #662 Antique Silver****Version 1.0-2020**

Any unavoidable deposit of dust must be regularly removed.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool and dry, keep packages closed, location away from other material.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific use are stipulated.

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****8.2 Exposure controls**

**Eye/face protection:** Safety glasses.

**Skin protection:**

Hand protection: Not required.

Body protection: Protective work clothing.

Other protection: Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled.

**Hygiene measures:** Change contaminated clothing. Wash hands after working with substance.

**Respiratory protection:**

Required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

**Thermal Hazards:** No information available.

**Environmental exposure controls:** Don't let product enter drains.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Appearance:</b>	Powder.
<b>colour:</b>	Pearlescent silver powder
<b>Odour:</b>	Odourless.
<b>Odour threshold:</b>	No information available.
<b>pH:</b>	5 ~ 9 (10% aqueous slurry).
<b>Melting point:</b>	No information available.
<b>Boiling point:</b>	No information available.
<b>Solid/gas flammability:</b>	No information available.
<b>Lower explosive limit:</b>	No information available.
<b>Upper explosive limit:</b>	No information available.
<b>Vapour density:</b>	No information available.
<b>Flash point:</b>	Not applicable.



Product code: Pearl Ex #662 Antique Silver

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<b>Evaporation rate:</b>	No information available.
<b>Vapour pressure:</b>	No information available.
<b>Relative density:</b>	2.4 ~ 3.0 g/cm <sup>3</sup> .
<b>Solubility in water:</b>	Insoluble.
<b>Lipid solubility:</b>	Insoluble.
<b>Partition coefficient (n-octanol/water):</b>	No information available.
<b>Auto-ignition temperature:</b>	No information available.
<b>Decomposition temperature:</b>	No information available.
<b>Viscosity:</b>	No information available.
<b>Explosive properties:</b>	No information available.
<b>Oxidizing properties:</b>	No information available.
<b>9.2 Other information</b>	
<b>Bulk density:</b>	17~ 23 g/100ml
<b>Particle size:</b>	10-60 µm.

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**10. STABILITY AND REACTIVITY****10.1 Reactivity**

No information available.

**10.2 Chemical stability**

Stable under standard ambient conditions(room temperature).

**10.3 Possibility of hazardous reactions**

No information available.

**10.4 Conditions to avoid**

Not known to date.

**10.5 Incompatible materials**

No information available.

**10.6 Hazardous decomposition products**

No information available.

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**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Aspiration hazard**

Based on available data the classification criteria are not met.

**Specific target organ toxicity – single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Specific target organ toxicity – repeated exposure**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**11.2 Other information**

**Product code: Pearl Ex #662 Antique Silver****Version 1.0-2020**

Quantitative data on the toxicity of this product are not available.  
Hazardous properties can not be excluded, but are relatively improbable due to the compound's poor water solubility.  
Our own experience has provided no indication of any hazardous potential.  
Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

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**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

No information available.

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**12.6 Other adverse effects**

Discharge into the environment must be avoided.

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**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations.

Leave chemicals in original containers. Do not mix with other waste.

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**14. TRANSPORT INFORMATION****14.1 Land transport (ADR/RID/GGVSE)**

Not classified as dangerous in the meaning of transport regulations.

**14.2 Sea transport (IMDG-Code/GGVSee)**

Not classified as dangerous in the meaning of transport regulations.

**14.3 Air transport (ICAO-IATA/DGR)**

Not classified as dangerous in the meaning of transport regulations.

**14.4 Special Precautions for User**

No information available.

**14.5 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not relevant.

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**METALLIC PIGMENT****Product code: Pearl Ex #662 Antique Silver****Version 1.0-2020****15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

Major Accident Hazard Legislation: Directive 96/82/EC does not apply.

**National legislation**

Storage class: 10 – 13.

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

**16. OTHER INFORMATION****16.1 Key or legend to abbreviations and acronyms used in the safety data sheet**

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

**16.2 Training advice**

Provide adequate information, instruction and training for operators.

**The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.**

**This SDS cancels and replaces any preceding release.**





# METALLIC PIGMENT



**Product: Pearl Ex #671 Interference Blue**

**Version 1.0-2020**

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

### 1.1 Product Identifier

**Trade name:** Pearl Ex #671 Interference Blue

**Trade code:** #671

**CAS number:** 12001-26-2/13463-67-7

### 1.2 Relevant identified uses of the substance/mixture and uses advised against

**Identified uses:** Coloring agent

### 1.3 Details of the supplier of the safety data sheet

**Company Name:** PENNTEK INDUSTRIAL COATINGS

**Address:** 7850 Lakeville BLVD Lakeville MN 55044

**Telephone:** 952-236-9305

### 1.4 Emergency telephone number

**Telephone companies:** Poison Control 800-222-1222

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

This substance is not classified as dangerous according to European Union Legislation.

### 2.2 Label elements

**Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:**

Properties / Symbols: S-phrases) 22 Do not breathe dust.

**EC regulation criteria 1272/2008 (CLP):**

Precautionary statements: P260 Do not breathe dust.

No special labeling needed.

### 2.3 Other hazards

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Ingredients	Chemical Name	CAS No.	CI Name	Weight in Percentage (%)
Mica	Mica	12001-26-2	CI 77019	43 ~ 60
TiO <sub>2</sub>	Titanium dioxide	13463-67-7	CI 77891	40 ~ 57

No components that are liable to disclose according to Regulation (EC) No.1907/2006.

**Product: Pearl Ex #671 Interference Blue****Version 1.0-2020**

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**4. FIRST AID MEASURES****4.1 Description of first aid measures**

**In case of skin contact:** Wash off with soap and plenty of water.

**In case of eyes contact:** Immediately flush with plenty of water about 15 minutes.

If discomfort persists, get medical aid.

**In case of Ingestion:** If victim is induce vomiting, give 2-4 cupfuls of water, get medical aid.

**In case of Inhalation:** Move person to fresh air. Consult doctor in the event of any complaints.

**4.2 Most important symptoms and effects, both acute and delayed**

We have no description of any toxic symptoms.

**4.3 Indication of any immediate medical attention and special treatment needed**

No information available.

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**5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media**

Use extinguishing measures that are in accordance with the local regulations.

For this substance/mixture no limitations of extinguishing agents are given.

**5.2 Special hazards arising from the substance or mixture**

Not combustible.

Ambient fire may liberate hazardous vapours.

**5.3 Advice for fire-fighters**

IN the event of fire, wear self-contained breathing apparatus.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

See protective measures under point 7 and 8.

**6.2 Environmental precautions**

Don't let product enter drains.

**6.3 Methods and material for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7.2 and 10.5).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

**6.4 Reference to other sections**

See also section 8 and 13.

---

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling:**

Prevent formation of dust

**Product: Pearl Ex #671 Interference Blue****Version 1.0-2020**

Any unavoidable deposit of dust must be regularly removed.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool and dry, keep packages closed, location away from other material.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific use are stipulated.

---

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****8.2 Exposure controls**

**Eye/face protection:** Safety glasses.

**Skin protection:**

Hand protection: Not required.

Body protection: Protective work clothing.

Other protection: Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled.

**Hygiene measures:** Change contaminated clothing. Wash hands after working with substance.

**Respiratory protection:**

Required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

**Thermal Hazards:** No information available.

**Environmental exposure controls:** Don't let product enter drains.

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**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

<b>Appearance:</b>	Powder.
<b>colour:</b>	White reflection with luser.
<b>Odour:</b>	Odourless.
<b>Odour threshold:</b>	No information available.
<b>pH:</b>	5 ~ 9 (10% aqueous slurry).
<b>Melting point:</b>	No information available.
<b>Boiling point:</b>	No information available.
<b>Solid/gas flammability:</b>	No information available.
<b>Lower explosive limit:</b>	No information available.
<b>Upper explosive limit:</b>	No information available.
<b>Vapour density:</b>	No information available.
<b>Flash point:</b>	Not applicable.

**Product: Pearl Ex #671 Interference Blue****Version 1.0-2020**

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<b>Evaporation rate:</b>	No information available.
<b>Vapour pressure:</b>	No information available.
<b>Relative density:</b>	2.4 ~ 3.0 g/cm <sup>3</sup> .
<b>Solubility in water:</b>	Insoluble.
<b>Lipid solubility:</b>	Insoluble.
<b>Partition coefficient (n-octanol/water):</b>	No information available.
<b>Auto-ignition temperature:</b>	No information available.
<b>Decomposition temperature:</b>	No information available.
<b>Viscosity:</b>	No information available.
<b>Explosive properties:</b>	No information available.
<b>Oxidizing properties:</b>	No information available.
<b>9.2 Other information</b>	
<b>Bulk density:</b>	15 ~ 21 g/100ml.
<b>Particle size:</b>	5-25 µm.

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**10. STABILITY AND REACTIVITY****10.1 Reactivity**

No information available.

**10.2 Chemical stability**

Stable under standard ambient conditions(room temperature).

**10.3 Possibility of hazardous reactions**

No information available.

**10.4 Conditions to avoid**

Not known to date.

**10.5 Incompatible materials**

No information available.

**10.6 Hazardous decomposition products**

No information available.

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**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Aspiration hazard**

Based on available data the classification criteria are not met.

**Specific target organ toxicity – single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Specific target organ toxicity – repeated exposure**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**11.2 Other information**

**Product: Pearl Ex #671 Interference Blue****Version 1.0-2020**

Quantitative data on the toxicity of this product are not available.  
Hazardous properties cannot be excluded, but are relatively improbable due to the compound's poor water solubility.  
Our own experience has provided no indication of any hazardous potential.  
Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

---

**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

No information available.

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**12.6 Other adverse effects**

Discharge into the environment must be avoided.

---

**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations.

Leave chemicals in original containers. Do not mix with other waste.

---

**14. TRANSPORT INFORMATION****14.1 Land transport (ADR/RID/GGVSE)**

Not classified as dangerous in the meaning of transport regulations.

**14.2 Sea transport (IMDG-Code/GGVSee)**

Not classified as dangerous in the meaning of transport regulations.

**14.3 Air transport (ICAO-IATA/DGR)**

Not classified as dangerous in the meaning of transport regulations.

**14.4 Special Precautions for User**

No information available.

**14.5 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not relevant.

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**METALLIC PIGMENT****Product: Pearl Ex #671 Interference Blue****Version 1.0-2020****15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

Major Accident Hazard Legislation: Directive 96/82/EC does not apply.

**National legislation**

Storage class: 10 – 13.

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

**16. OTHER INFORMATION****16.1 Key or legend to abbreviations and acronyms used in the safety data sheet**

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

**16.2 Training advice**

Provide adequate information, instruction and training for operators.

**The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.**

**This SDS cancels and replaces any preceding release.**


**METALLIC PIGMENT**

**Product code: Pearl Ex #693 Duo Violet-Brass**
**Version 1.0-2020**
**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING**
**1.1 Product Identifier**
**Trade name:** Pearl Ex #693 Duo Violet-Brass

**Trade code:** #693

**CAS number:** 12001-26-2/13463-67-7/6448-96-0

**1.2 Relevant identified uses of the substance/mixture and uses advised against**
**Identified uses:** Coloring Agent

**1.3 Details of the supplier of the safety data sheet**
**Company Name:** PENNTEK INDUSTRIAL COATINGS

**Address:** 7850 Lakeville BLVD Lakeville MN 55044

**Telephone:** 952-236-9305

**1.4 Emergency telephone number**
**Telephone companies:** Poison Control 800-222-1222

**2. HAZARDS IDENTIFICATION**
**2.1 Classification of the substance or mixture**

This substance is not classified as dangerous according to European Union Legislation.

**2.2 Label elements**
**Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:**

Properties / Symbols: S-phrases) 22 Do not breathe dust.

**EC regulation criteria 1272/2008 (CLP):**

Precautionary statements: P260 Do not breathe dust.

No special labeling needed.

**2.3 Other hazards**

None known.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Mixtures

Ingredients	Chemical Name	CAS No.	CI Name	Weight in Percentage (%)
Mica	Mica	12001-26-2	CI 77019	51 ~ 61
TiO <sub>2</sub>	Titanium dioxide	13463-67-7	CI 77891	39 ~ 47
Pigment red 31	Pigment red 31	6448-96-0	CI 12360	≤ 2

No components that are liable to disclose according to Regulation (EC) No.1907/2006.

**METALLIC PIGMENT****Product code: Pearl Ex #693 Duo Violet-Brass****Version 1.0-2020**

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**4. FIRST AID MEASURES****4.1 Description of first aid measures**

**In case of skin contact:** Wash off with soap and plenty of water.

**In case of eyes contact:** Immediately flush with plenty of water about 15 minutes.

If discomfort persists, get medical aid.

**In case of Ingestion:** If victim is induce vomiting, give 2-4 cupfuls of water, get medical aid.

**In case of Inhalation:** Move person to fresh air. Consult doctor in the event of any complaints.

**4.2 Most important symptoms and effects, both acute and delayed**

We have no description of any toxic symptoms.

**4.3 Indication of any immediate medical attention and special treatment needed**

No information available.

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**5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media**

Use extinguishing measures that are in accordance with the local regulations.

For this substance/mixture no limitations of extinguishing agents are given.

**5.2 Special hazards arising from the substance or mixture**

Not combustible.

Ambient fire may liberate hazardous vapours.

**5.3 Advice for fire-fighters**

IN the event of fire, wear self-contained breathing apparatus.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

See protective measures under point 7 and 8.

**6.2 Environmental precautions**

Don't let product enter drains.

**6.3 Methods and material for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7.2 and 10.5).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

**6.4 Reference to other sections**

See also section 8 and 13.

---

**7. HANDLING AND STORAGE****7.1 Precautions for safe handling:**

Prevent formation of dust



**Product code: Pearl Ex #693 Duo Violet-Brass****Version 1.0-2020**

Any unavoidable deposit of dust must be regularly removed.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool and dry, keep packages closed, location away from other material

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific use are stipulated.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****8.2 Exposure controls**

**Eye/face protection:** Safety glasses.

**Skin protection:**

Hand protection: Not required.

Body protection: Protective work clothing.

Other protection: Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled.

**Hygiene measures:** Change contaminated clothing. Wash hands after working with substance.

**Respiratory protection:**

Required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

**Thermal Hazards:** No information available.

**Environmental exposure controls:** Don't let product enter drains.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Appearance:	Powder.
colour:	Pearlescent purple powder
Odour:	Odourless.
<b>Odour threshold:</b>	No information available.
<b>pH:</b>	5 ~ 9 (10% aqueous slurry).
<b>Melting point:</b>	No information available.
<b>Boiling point:</b>	No information available.
<b>Solid/gas flammability:</b>	No information available.
<b>Lower explosive limit:</b>	No information available.
<b>Upper explosive limit:</b>	No information available.
<b>Vapour density:</b>	No information available.
<b>Flash point:</b>	Not applicable.

**Product code: Pearl Ex #693 Duo Violet-Brass****Version 1.0-2020**


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<b>Evaporation rate:</b>	No information available.
<b>Vapour pressure:</b>	No information available.
<b>Relative density:</b>	2.5 ~ 3.1 g/cm <sup>3</sup> .
<b>Solubility in water:</b>	Insoluble.
<b>Lipid solubility:</b>	Insoluble.
<b>Partition coefficient (n-octanol/water):</b>	No information available.
<b>Auto-ignition temperature:</b>	No information available.
<b>Decomposition temperature:</b>	No information available.
<b>Viscosity:</b>	No information available.
<b>Explosive properties:</b>	No information available.
<b>Oxidizing properties:</b>	No information available.
<b>9.2 Other information</b>	
<b>Bulk density:</b>	17~ 25 g/100ml
<b>Particle size:</b>	10-60 µm.

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**10. STABILITY AND REACTIVITY****10.1 Reactivity**

No information available.

**10.2 Chemical stability**

Stable under standard ambient conditions(room temperature).

**10.3 Possibility of hazardous reactions**

No information available.

**10.4 Conditions to avoid**

Not known to date.

**10.5 Incompatible materials**

No information available.

**10.6 Hazardous decomposition products**

No information available.

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**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Aspiration hazard**

Based on available data the classification criteria are not met.

**Specific target organ toxicity – single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Specific target organ toxicity – repeated exposure**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**11.2 Other information**

**Product code: Pearl Ex #693 Duo Violet-Brass****Version 1.0- 2020**

Quantitative data on the toxicity of this product are not available.  
Hazardous properties can not be excluded, but are relatively improbable due to the compound's poor water solubility.  
Our own experience has provided no indication of any hazardous potential.  
Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

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**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

No information available.

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**12.6 Other adverse effects**

Discharge into the environment must be avoided.

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**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations.

Leave chemicals in original containers. Do not mix with other waste.

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**14. TRANSPORT INFORMATION****14.1 Land transport (ADR/RID/GGVSE)**

Not classified as dangerous in the meaning of transport regulations.

**14.2 Sea transport (IMDG-Code/GGVSee)**

Not classified as dangerous in the meaning of transport regulations.

**14.3 Air transport (ICAO-IATA/DGR)**

Not classified as dangerous in the meaning of transport regulations.

**14.4 Special Precautions for User**

No information available.

**14.5 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not relevant.

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**METALLIC PIGMENT****Product code: Pearl Ex #693 Duo Violet-Brass****Version 1.0- 2020**

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**15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations**

Major Accident Hazard Legislation: Directive 96/82/EC does not apply.

**National legislation**

Storage class: 10 – 13.

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

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**16. OTHER INFORMATION****16.1 Key or legend to abbreviations and acronyms used in the safety data sheet**

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

**16.2 Training advice**

Provide adequate information, instruction and training for operators.

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**The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.**

**This SDS cancels and replaces any preceding release.**