



# SAFETY DATA SHEET

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT

**Product Name:** Cobalt Blue Dry Pigment  
**Product Description:** pigment/colorant  
**Intended Use:** Fine art painting and decorative coatings

### COMPANY

**Company Name:** Gamblin Artists Colors  
**Company Address:** 2734 SE Raymond St.  
Portland, OR 97202  
USA  
**Company Phone:** 503-235-1945  
**Emergency Phone:** Local Emergency Room

## SECTION 2: HAZARDS IDENTIFICATION

### GHS LABELING

**GHS Classification:** Not classified as hazardous

**Physical Hazards:** Not classified

**Environmental hazards:** Not classified

**OSHA defined hazards:** Not classified

### Label elements

**Hazard symbol:** None.

**Signal word:** Not assigned

**Hazard statement:** Not assigned

### Precautionary statement

**Prevention:** Not assigned

**Response:** Not assigned

**Storage:** Not assigned

**Disposal:** Not assigned

### Hazard(s) not otherwise classified (HNOC)

Not assigned

**Supplemental information:** Not assigned

### Substance(s) formed under the condition of use

Not assigned

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common name and synonyms	CAS-No.	(%)
Cobalt Aluminate Blue Spinel	CI Pigment Blue 28 CI Constitution #77346	13345-16-0	100
	CPMA 13-26-2		

**Composition comments** This product is the result of high temperature calcination of the component substances. Due to its unique crystalline structure the properties of this finished pigment do not necessarily reflect the properties of the component metals or oxides.

### SECTION 4: FIRST AID MEASURES

**Eyes:** Hold eyelids apart and flush with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

**Skin:** Wash skin with soap and water. Get medical attention if irritation persists after washing.

**Inhalation:** Remove to fresh air. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.

**Ingestion:** Never give anything by mouth to an unconscious person. If swallowed, do NOT induce vomiting. Give several glasses of water to dilute contents of stomach and call a physician.

**Most important symptoms/effects, acute and delayed**

Contact with eyes may cause irritation. Inhalation of dusts may cause respiratory irritation. Contact with skin may cause irritation.

**General Information** The type of protective equipment must be selected according to the concentration and amount of dangerous substance at the specific workplace. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. No special protective equipment required. Where there is a potential for eye exposure to this substance, an eye wash fountain should be provided within the immediate work area for emergency use.

### SECTION 5: FIRE FIGHTING MEASURES

#### FIRE FIGHTING

**Extinguishing Media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable Extinguishing Media:**  
Not applicable.

**Specific hazards arising from the chemical:**  
None known.

**Special protective equipment and precautions for firefighters:**  
Use protective equipment appropriate for surrounding materials.

**Fire-fighting equipment/instructions:**  
Not a fire hazard.

**Specific methods:** Not established.

**General fire hazards:** This product is not flammable.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions, protective equipment and emergency procedures:**

Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material.

**Methods and materials for containment and for clean up:**

Avoid dust formation. Following product recovery, flush area with water. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container.

**Environmental Precautions:**

Do not discharge into drains, water courses or onto the ground.

**SECTION 7: HANDLING AND STORAGE**

**Precautions for Safe Handling:**

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Keep formation of airborne dust to a minimum. Do not eat, drink or smoke when using the product. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

**Cautions for Safe Storage:**

Store in closed original container in a dry place. Room temperature – normal conditions. Use care in handling/storage. Keep in properly labelled containers.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**US. ACGIH Threshold Limit Values**

Metals	Type	Value	Percent	Form
Cobalt metal, dust and fumes	PEL	0.1 mg/m <sup>3</sup>	23 – 30%	(as Co) dust and fume
Cobalt metal, dust and fumes	TWA	0.02 mg/m <sup>3</sup>	23 – 30%	(as Co)
Cobalt metal, dust and fumes	TWA	0.05 mg/m <sup>3</sup>	23 – 30%	(as Co) dust and fume

**Biological Limit Values**

Metals	Value	Form	Determinant	Specimen	Sampling Time
Cobalt metal, dust and fumes	15 µg/l	(as Co)	Cobalt	Urine	*
	1 µg/l	(as Co)	Cobalt	Blood	*

\* For sampling details, please see the source document.

**APPROPRIATE ENGINEERING CONTROLS**

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT**

**EYE PROTECTION**

Safety glasses with side-shields.

**SKIN PROTECTION**

**HAND PROTECTION**

Rubber or plastic gloves. PVA disposable gloves. Use impervious gloves.

**OTHER**

Normal work clothing (long sleeved shirts and long pants) is recommended.

**RESPIRATORY PROTECTION**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved

respirator must be worn. Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever work place conditions warrant a respirator's use. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respirator protection. MSHA/NIOSH respirators approved for dusts TC-21C or NIOSH approved cartridges for Non-oil aerosols, N95, N99, N100 (42 CFR 84).

<b>THERMAL HAZARDS</b>	Not applicable
<b>GENERAL HYGIENE CONSIDERATIONS</b>	Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Powder
<b>PHYSICAL STATE:</b>	Solid
<b>FORM:</b>	Powder
<b>COLOR:</b>	Blue
<b>ODOR:</b>	Odorless
<b>ODOR THRESHOLD:</b>	Not available
<b>pH</b>	6.2
<b>MELTING POINT</b>	Not applicable
<b>INITIAL BOILING POINT AND BOILING RANGE</b>	Not applicable
<b>FLASH POINT</b>	Not applicable
<b>EVAPORATION RATE</b>	Not applicable
<b>FLAMMABILITY (SOLID, GAS)</b>	Not applicable
<b>UPPER/LOWER FLAMMABILITY OR EXPOSURE LIMITS</b>	
<b>Flammability limit – lower %</b>	Not applicable
<b>Flammability limit – upper %</b>	Not applicable
<b>Explosive limit – lower %</b>	Not available
<b>Explosive limit – upper %</b>	Not available
<b>VAPOR PRESSURE</b>	Not applicable
<b>VAPOR DENSITY</b>	Not applicable
<b>RELATIVE DENSITY:</b>	Not available
<b>SOLUBILITY (water):</b>	Negligible
<b>PARTITION COEFFICIENT (n-octanol/water)</b>	Not applicable
<b>AUTO-IGNITION TEMPERATURE</b>	Not applicable
<b>DECOMPOSITION TEMPERATURE</b>	Not applicable
<b>VISCOSITY</b>	Not applicable
<b>SPECIFIC GRAVITY</b>	4.3
<b>LOOSE PACKING DENSITY</b>	Not available

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** Not available  
**Chemical stability:** Stable under normal temperature conditions and recommended use  
**Possibility of hazardous reactions** Hazardous Polymerization does not occur  
**Conditions to Avoid:** Not known.  
**Incompatible materials:** None known  
**Hazardous Decomposition Products:** No hazardous decomposition products are known.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**INFORMATION ON LIKELY ROUTES OF EXPOSURE**

**INGESTION** No adverse effects due to ingestion are expected  
**INHALATION** May cause irritation to the respiratory system  
**SKIN CONTACT** Contact with skin may cause irritation  
**EYE CONTACT** May irritate eyes

**SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXIOLOGICAL CHARACTERISTICS:**

Product dust may be irritating to eyes, skin and respiratory system

**INFORMATION ON TOXIOLOGICAL EFFECTS:**

**ACUTE TOXICITY:** May cause respiratory irritation. May be slightly irritating to skin and eyes.

COMPONENTS	SPECIES	TEST RESULT
COBALT ALUMINATE BLUE SPINEL (CAS 1345-16-0)		
<b>ACUTE:</b>		
Inhalation: LD 50	Rat	Not tested
Oral: LD 50	Rat	> 10000 mg/kg

**SKIN CORROSION/IRRITATION** Contact with skin may cause irritation  
**SERIOUS EYE DAMAGE/EYE IRRATION** May irritate eyes.  
**RESPIRATORY OR SKIN SENSITIZATION**  
**RESPIRATORY SENSITIZATION** No data available  
**SKIN SENSITIZATION** No data available  
**GERM CELL MUTAGENICITY** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic  
**CARCINOGENICITY**  
**IARC Monographs, Overall Evaluation of Carcinogenicity**  
 COBALT COMPOUND (CAS 7440-48-4) 2B Possibly carcinogenic to humans  
**REPRODUCTIVE TOXICITY** No data available  
**SPECIFIC TARGET ORGIN TOXICITY – SINGLE EXPOSURE** No data available  
**SPECIFIC TARGET ORGIN TOXICITY – REPEATED EXPOSURE** No data available  
**ASPIRATION HAZARD** No data available  
**CHRONIC EFFECTS** No data available

### FURTHER INFORMATION

Repeated overexposure to this compound may cause eye, skin and respiratory tract irritation. Some compounds of the metals used in the manufacturing of this material have demonstrated various toxic properties. However, there is no evidence that this material has these toxic characteristics. This product is the result of high temperature calcination of the component substances. Due to its unique crystalline structure the properties of this finished material do not necessarily reflect the properties of the component metal or oxides.

## SECTION 12: ECOLOGICAL INFORMATION

<b>ECOTOXICITY</b>	Not expected to be harmful to aquatic organisms.
<b>PERSISTENCE AND DEGRADABILITY</b>	This product is not expected to be biodegradable
<b>BIOACCUMULATIVE POTENTIAL</b>	This product does not contain any substances expected to be bio-accumulating.
<b>MOBILITY IN SOIL</b>	No data available
<b>MOBILITY IN GENERAL</b>	No data available
<b>OTHER ADVERSE EFFECTS</b>	None known

## SECTION 13: DISPOSAL CONSIDERATIONS

### DISPOSAL INFORMATION

All wastes must be handled in accordance with local, state and federal regulations.

**HAZARDOUS WASTE CODE** Not regulated

### WASTE FROM RESIDUES/UNUSED PRODUCTS

Dispose of in accordance with local regulations

### CONTAMINATED PACKAGING

Since emptied containers retain product residue, follow label warnings even after container is emptied.

## SECTION 14: TRANSPORT INFORMATION

<b>DOT</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.
<b>Transport in bulk according to Annex II of MARPOL 73.78 and the IBC Code</b>	Not available

## SECTION 15: REGULATORY INFORMATION

### US federal regulations

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

### CERCLA Hazardous Substances List (40 CFR 302.4)

Not listed.

### US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**HAZARD CATEGORIES** Immediate hazard – Yes  
 Delayed hazard – Yes  
 Fire hazard – No  
 Pressure hazard – No  
 Reactivity hazard – No

**SARA 302 Extremely hazardous substance** No  
**SARA 311/312 hazardous chemical** Yes  
**SARA 313 (TRI reporting)**

CHEMICAL NAME	CAS number	% by weight
COBALT COMPOUND	7440-48-4	100

**OTHER FEDERAL REGULATIONS**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

COBALT COMPOUND (CAS 7440-48-4)

**Clean Air Act (CAA) Section 112 Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)**

Not regulated

**US state regulations**

**US. Massachusetts RTK – Substance List**

COBALT COMPOUND (CAS 7440-48-4)

**US. New Jersey Worker and Community Right-to-Know Act**

COBALT COMPOUND (CAS 7440-48-4) **500 LBS**

**US. Pennsylvania RTK – Hazardous Substances**

COBALT COMPOUND (CAS 7440-48-4)

**US. Rhode Island RTK**

COBALT COMPOUND (CAS 7440-48-4)

**US. California Proposition 65**

Not listed

**INTERNATIONAL INVENTORIES**

COUNTRY(S) OR REGION	INVENTORY NAME	On inventory (yes/no)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (EINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Porto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\* A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## **SECTION 16: OTHER INFORMATION**

**The information and recommendations contained herein are, to the best of Gamblin’s knowledge and belief, accurate and reliable, but it is not warranted to be. You can contact Gamblin to ensure that this document is the most current available. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use and it is the user’s responsibility to carefully read the product label and follow instructions for safe use of the product.**

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