# **Safety Data Sheets**

# Cobalt cerulean (green shade) Pb36

Product code: PS-CO0010

Department: cobalt dry pigments

C.A.S.: 68187-11-1



### **Section: 1 Identification**

C.I. Name: CI Pigment Blue 36 \* CI Constitution #77343 \* CPMA # 13-29-2

Use of the substance/preparation: Artists paints, colouring of coatings, inks and plastics.

Company supplying the SDS: KAMA pigments

Address: 7442 St-Hubert Montréal Québec, H2R 2N3

phone: 514 272 2173

email: info@kamapigment.com

### **Section: 2 Hazard Identification**

Physical hazards Not classified. Health hazards Not classified. Environmental hazards Not classified. OSHA defined hazards Not classified

#### **HGS Label Elements**

#### **Signal Word**

#### **GHS Classification**

The product does not require a hazard warning label in accordance with GHS criteria.

#### **Hazard statements**

### **Precautionary Statements**

P261 – Avoid breathing dust/fume/gas/mist/vapors/spray.

P281 – Use personal protective equipment as required.

P391 - Collect spillage.

P403 + 233 – Store in a well-ventilated place. Keep container tightly closed.

# **Section: 3 Composition / Information on Ingredients**

Chemical name Common name and synonyms CAS number %
Cobalt Chromite CI Pigment Blue 36 68187-11-1\* 100

Blue-Green Spinel CI Constitution #77343

CPMA # 13-29-2

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**

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.

Skin contact Wash the skin immediately with soap and water. Get medical attention if irritation

develops or persists.

Eye contact Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get

medical attention if irritation develops or persists.

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 If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. 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**

Suitable extinguishing media

Unsuitable extinguishing media Specific hazards arising from

Special protective equipmentand precautions for firefighters

Fire fighting equipment/instructions

Specific methods

General fire hazards

Use extinguishing agent suitable for type of surrounding fire.

Not applicable.

None known.

Use protective equipment appropriate for surrounding materials.

Not a fire hazard.

Not established.

This product is not flammable.

#### Section: 6 Accidental Release Measures

Personal precautions, protective equipment

and emergency procedures

Methods and materials for containment and cleaning up

Environmental precautions

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

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.

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

# **Section: 7 Handling And Storage**

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Keep formation of airborne dusts to a minimum. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.

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 Control/Personal Protection**

**PERCENT** 

**FORM** 

Occupational exposure limits

METALS

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

TYPF

|                              |      | ===       |         |                        |
|------------------------------|------|-----------|---------|------------------------|
| Cobalt metal, dust and fumes | PEL  | 0.1 mg/m3 | 24-30%  | (as Co) Dust and fume. |
| Chromium (III) and compounds | PEL  | 1 mg/m3   | 43-50%  | (as Cr)                |
| Zinc compounds               | none |           | 3 - 10% | (as Zn)                |

VALUE

S. ACGIH Threshold Limit Values

| METALS                       | TYPE | VALUE      | PERCENT | FORM    |
|------------------------------|------|------------|---------|---------|
| Cobalt metal, dust and fumes | TWA  | 0.02 mg/m3 | 24-30%  | (as Co) |
| Chromium (III) and compounds | TWA  | 0.5 mg/m3  | 43-50%  | (as Cr) |
| Zinc compounds               | none |            | 3 - 10% | (as Zn) |

US. NIOSH: Pocket Guide to Chemical Hazards

| METALS                       | IYPE | VALUE      | PERCENT | FORM                   |
|------------------------------|------|------------|---------|------------------------|
| Cobalt metal, dust and fumes | TWA  | 0.05 mg/m3 | 24-30%  | (as Co) Dust and fume. |

Chromium (III) and compounds TWA 0.5 mg/m3 43-50% (as Cr)

Biological limit values

**ACGIH Biological Exposure Indices** 

| CONSTITUENTS                 | VALUE            | FORM | DETERMINANT | SPECIMEN |
|------------------------------|------------------|------|-------------|----------|
| Cobalt metal, dust and fumes | 15 μg /I (as Co) | Co   | Cobalt      | Urine    |
|                              | 1 μg /l (as Co)  | Co   | Cobalt      | Blood    |

airborne levels below recommended exposure limits.

Individual protection measures, such as personal protective equipment Eye/face protection Safety glasses with side-shields.

Skin protection

Hand protection Rubber or plastic gloves. PVC disposable gloves. Use impervious gloves. Other Normal work clothing (long sleeved shirts and long pants) is recommended.

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. 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 respiratory protection. MSHA/NIOSH respirators approved for dusts TC-21C or NIOSH approved cartridges for Non-oil aerosols,

N95, N99, N100 (42 CFR 84).

Thermal hazards Not applicable.

General hygiene considerations

Use personal protective equipment as required. Handle in accordance with good industrial

hygiene and safety practice.

# **Section: 9 Physical and Chemical Properties**

Appearance Powder.
Physical state Solid.
Color blue green
Odor None
pH 8

Solubility (water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Negligible

Not applicable.

Not applicable

Not applicable

### **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 None known. Incompatible materials None known.

Hazardous decomposition products

No hazardous decomposition products are known.

### **Section: 11 Toxicological Information**

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system.
Skin contact Contact with skin may cause irritation.

Eye contact May irritate eyes.

Ingestion No adverse effects due to ingestion are expected.

Symptoms related to the physical,

chemical and toxicological characteristics Product dust may be irritating to eyes, skin and respiratory system.

Information on toxicological effects

Acute toxicity May cause respiratory irritation. May be slightly irritating to skin and eyes.

Cobalt Chromite Blue-Green Spinel

COMPONENTS SPECIES TEST RESULTS Inhalation LD50 Rat Not Tested Oral LD50 Rat > 10000 mg/kg

Skin corrosion/irritation Contact with skin may cause irritation.

Serious eye damage/eye irritation 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 Not available.

Reproductive toxicity No data available.

Specific target organ toxicity -

single exposure
repeated exposure
Aspiration hazard
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 metals or oxides.

### **Section: 12 Ecological Information**

Ecotoxicity Not expected to be harmful to aquatic organisms. Persistence and degradability The product is not expected to be biodegradable.

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

Mobility in soil No data available.

Mobility in general No data available.

Other adverse effects None known.

### **Section: 13 Disposal Considerations**

Disposal instructions Hazardous waste code All wastes must be handled in accordance with local, state and federal regulations.

Not regulated.

Waste from residues / unused products

Contaminated packaging

Dispose of in accordance with local regulations.

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

### **Section: 14 Transport Information**

DOT Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG Not regulated as dangerous goods.

## **Section: 15 Regulatory Information**

IARC has classified cobalt and cobalt compounds as possibly carcinogenic to humans. (Group 2B, Monograph #52).

US federal regulations

TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D) Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

SARA 302 Extremely hazardous substance

SARA 311/312 Hazardous chemical

SARA 313 (TRI reporting)

CHEMICAL NAME
Cobalt compound
Chromium compound
Zinc compound

Other federal regulations

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

Accidental Release Prevention (40 CFR 68.130)

US state regulations

US - New Jersey RTK - Substances: Listed substance

US - Pennsylvania RTK - Hazardous Substances:

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

US. California. Candidate Chemicals List. Safer Consumer

Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

US. Massachusetts RTK - Substance List

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

US. Pennsylvania RTK - Hazardous Substances

US. Pennsylvania Worker and Community Right-to-Know Law

US. Rhode Island RTK

US. California Proposition 65

Not regulated.

Immediate Hazard – Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard – No

Not listed. Yes

CAS NUMBER % BY WT.

N/A 100

N/A 100

N/A 100

Cobalt compound (CAS N/A)

Not regulated.

Cobalt compund (CAS N/A)

All compounds of this substance are considered environmental hazards Cobalt compund (CAS N/A)

Not listed.

Cobalt compound (CAS N/A)

Cobalt compound (CAS N/A)

Cobalt compound (CAS N/A) Cobalt compound (CAS N/A)

Cobalt compound (CAS N/A)

Cobalt compound (CAS N/A)

This product has not been analyzed for all of the listed chemicals; however no listed chemicals are intentionally added. Trace amounts of listed chemicals may be present due to impurities in the raw materials used to manufacture this product.

#### 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 (EINECS)      | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)           | 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 & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                    | Yes                    |

<sup>\*</sup>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**

Reference Manufacturer's material safety data sheet.

Prepared by Kama pigments

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