# **Safety Data Sheets**

# Cobalt green extra deep Pg26

Product code: PS-CO0035

Department: cobalt dry pigments

C.A.S.: 68187-49-5



### **Section: 1 Identification**

**Product** Pigment Cobalt Green Extra Deep Pg26

Color index Pigment green 26, CI Constitution #77344 \* CPMA # 13-30-3 Substance use Colorant, artists paint, coatings coloring, inks and plastics.

Company supplying the SDS: KAMA pigments

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

Phone: 514 272 2173 fax: 514 948 5253 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 green spinel CI Pigment Green 26 68187-49-5\* 100

> CI Constitution #77344 CPMA # 13-30-3

This product is the result of high temperature calcination of the component substances. Due to its Composition comments

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

General information

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

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 the chemical
Special protective equipment and
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**

3 - 10%

(as Zn)

Occupa	tional	exposure	limits

US. OSHA Table Z-1 Limits for Air Contaminants (	(29	CFR	1910.1000)	
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none

METALS	TYPE	VALUE	PERCENT	FORM
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)
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)

### US. NIOSH: Pocket Guide to Chemical Hazards

METALS TYPE	VALUE	PERCENT	FORM
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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

Zinc compounds

**ACGIH Biological Exposure Indices** 

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

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 Safety glasses with side-shields.

Eye/face protection

Skin protection

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

If engineering controls do not maintain airborne concentrations below recommended exposure Respiratory protection

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.

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

hygiene and safety practice.

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

Powder. Appearance: Solid. Physical state: Powder. Form: Color: dark green Odor: None.

Odor threshold: Not available.

pH: 8.6

Melting point/freezing point: Not applicable Initial boiling point and boiling range: Not applicable Flash point: Not applicable. Evaporation rate: Not applicable Not applicable. Flammability (solid, gas):

Upper/lower flammability or explosive limits

Flammability limit - lower (%): Not applicable. Flammability limit - upper (%): Not applicable. Explosive limit - lower (%): Not available. Explosive limit - upper (%): Not available. Vapor pressure: Not applicable Vapor density: Not applicable Relative density: Not available. Solubility (water): Negligible Partition coefficient(n-octanol/water): Not applicable. Auto-ignition temperature: Not applicable. Decomposition temperature: Not applicable Viscosity: Not applicable

Specific gravity: 5.1

Loose Packing Density: Not available.

# **Section: 10 Stability And Reactivity**

Not available. Reactivity

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

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

COBALT CHROMITE 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
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 biodegradable.

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

Mobility in soilNo data available.Mobility in generalNo data available.Other adverse effectsNone known.

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

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

Hazardous waste code 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**

Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US state regulations

US - New Jersey RTK - Substances: Listed substance Cobalt compund (CAS N/A)

US - Pennsylvania RTK - Hazardous Substances:

All compounds of this substance are considered

environmental hazards Cobalt compund (CAS N/A)

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))

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

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

Not listed.

Cobalt compound (CAS N/A)

Product Kama Pigments PS-C00035, Cobalt green extra deep Pg26

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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