Safety Data Sheets

Cobalt cerulean (blue shade) Pb36

Product code: PS-CO0015 Department: cobalt dry pigments C.A.S.: 68187-11-1



Section: 1 Identification

Product Color Index Use of the substance

Company supplying the SDS: Address : phone : email : Cobalt Cerulean (Blue Shade) Pb36 Pigment blue 36, CI Constitution #77343 * CPMA # 13-29-2 Artists paints, colouring of coatings, inks and plastics

KAMA pigments 7442 St-Hubert Montréal Québec, H2R 2N3 514 272 2173 info@kamapigment.com

Section: 2 Hazard Identification

Physical hazards Health hazards Environmental hazards OSHA defined hazards Not classified Not classified Not classified 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 Cobalt Chromite Blue-Green Spinel Common name and synonyms CI Pigment Blue 36 CI Constitution #77343 CPMA # 13-29-2 CAS number 68187-11-1* % 100

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

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.

Environmental precautions

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

Occupational exposure limits US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)					
METALS	TYPE	VALUE	1000)	PERCENT	FORM
Cobalt metal, dust and fumes	PEL	0.1 mg/n	n3	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/n		43-50%	(as Cr)
Zinc compounds	none	0.0 mg/n		3 - 10%	(as Zn)
·					
US. NIOSH: Pocket Guide to Chemica					
METALS	TYPE	VALUE		PERCENT	FORM
Cobalt metal, dust and fumes	TWA	0.05 mg/		24-30%	(as Co) Dust and fume.
Chromium (III) and compounds	TWA	0.5 mg/n	n3	43-50%	(as Cr)
Biological limit values ACGIH Biological Exposure Indices CONSTITUENTS Cobalt metal, dust and fumes	VALUE 15 μg /I (as Co 1 μg /I (as Co)		FORM Co Co	DETERMINANT Cobalt Cobalt	SPECIMEN Urine Blood
	i μg /i (as ου))	00	Obball	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 a	s personal prote	ctive equip	oment		
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.				
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. 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 Physical state Color Odor pH Solubility (water) Auto-ignition temperature Decomposition temperature Viscosity Powder. Solid. blue green None 8.6 Negligible Not applicable. Not applicable Not applicable

Section: 10 Stability And Reactivity

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

Section: 11 Toxicological Information

Information on likely routes of exposure Inhalation Skin contact Eye contact Ingestion Symptoms related to the physical, chemical and toxicological characteristics Information on toxicological effects Acute toxicity	s Product dust may be irr	cause irritation. to ingestion are expected.	
Cobalt chromite blue - green spinel (cas	68187-11-1)		
	COMPONENTS	SPECIES	TEST RESULTS
Inhalation	LD50	Rat	Not Tested
Oral	LD50	Rat	> 10000 mg/kg
Skin corrosion/irritation	Contact with skin may o	cause irritation.	
Serious eye damage/eye irritation	May irritate eyes.		
Respiratory or skin sensitization Respiratory sensitization Skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity -	No data available. No data available. No data available to inc mutagenic or genotoxic Not available. No data available.	licate product or any components p	resent at greater than 0.1% are
single exposure	No data available.		
repeated exposure	No data available.		
Aspiration hazard	No data available.		
Chronic effects	No data available.		
Further information	Some compounds of th demonstrated various to these toxic characterist component substances	e to this compound may cause eye, e metals used in the manufacturing oxic properties. However, there is n ics. This product is the result of high . Due to its unique crystalline struct arily reflect the properties of the con	of this material have o evidence that this material has n temperature calcination of the ure the properties of this finished

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 Waste from residues / unused products Contaminated packaging

All wastes must be handled in accordance with local, state and federal regulations. Not regulated. 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.
ΙΑΤΑ	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.

Section: 15 Regulatory Information

product.

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	Not regulated. Immediate Hazard – Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No	
	Reactivity Hazard – No	
SARA 302 Extremely hazardous substance	Not listed.	
SARA 311/312 Hazardous chemical	Yes	
SARA 313 (TRI reporting)		
CHEMICAL NAME	CAS NUMBER	% BY WT.
Cobalt compound	N/A	100
Chromium compound	N/A	100
Zinc compound	N/A	100
Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Accidental Release Prevention (40 CFR 68.130)	Cobalt compound (CAS N/A) 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 ar environmental hazards Cobalt com	
US. California Controlled Substances. CA Department of Justice		
(California Health and Safety Code Section 11100)	Not listed.	
US. California. Candidate Chemicals List. Safer Consumer		
Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))	Cobalt compound (CAS N/A)	
US. Massachusetts RTK - Substance List	Cobalt compound (CAS N/A)	
US. New Jersey Worker and Community Right-to-Know Act	Cobalt compound (CAS N/A)	
US. Pennsylvania RTK - Hazardous Substances	Cobalt compound (CAS N/A)	
US. Pennsylvania Worker and Community Right-to-Know Law US. Rhode Island RTK	Cobalt compound (CAS N/A) Cobalt compound (CAS N/A)	
US. California Proposition 65	This product has not been analyzed	h for all of the listed
	chemicals; however no listed chem	
	added. Trace amounts of listed che to impurities in the raw materials us	micals may be present due

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

*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 Prepared by Manufacturer's material safety data sheet. Kama pigments

Disclaimer:

Kama pigments, expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information, refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Kama pigments Sales Office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Kama pigments makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Kama pigments' control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.



Last revision: 2023-09-14