Jaune brilliant



	Product Identification	
Product name	Jaune brilliant	
Product Code	PS-IN0020	
	Emergency information	
24 HOUR EMERGENCY NUMBER	CHEMTREC -	Domestic 800-424-9300 International 703-527-3887
	Hazards Identification	
Emergency overview	Health injuries are not known or expected under normal use.	
Potential health effects Routes of exposure	Inhalation. Ingestion.	
Eyes	This product may cause slight irritation to the eyes.	
Skin	This product may cause irritation to the skin.	
Inhalation	Inhalation of dusts may cause respiratory irritation.	
Ingestion	Health injuries are not known or expected under normal use.	
Signs and symptoms	Product dust may be irritating to eyes, skin and respiratory system.	
Potential environmental effects	Ecological injuries are not known or expected under normal use	
	Composition Information	
Hazardous Ingredients	%	C.A.S.#
chrome antimony titanium buff rutile	100	68186-90-3*
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

	First Aid
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
skin contact	Wash the skin immediately with soap and water. Get medical attention if irritation develops or persists
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
General advice	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
	Fire Fighting Measure
Flammable properties Extinguishing media	The product is not flammable.
Suitable extinguishing media	Use extinguishing agent suitable for type of surrounding fire. Not applicable.
Unsuitable extinguishing media	Not applicable
Protection of firefighters Specific hazards arising from the chemical Protective equipment and precautions for firefighters	None known. Use protective equipment appropriate for surrounding materials.
Fire fighting equipment/instructions Specific methods	Not a fire hazard.
Unusual fire & explosion hazards	Not established. The product is not flammable
	Accidental Release Measure
Personal precautions	Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material.
Environmental precautions Methods for containment	Do not discharge into drains, water courses or onto the ground. Collect material into appropriate containers for reuse or disposal. Material may also be flushed with water to a wastewater treatment system.
Methods for cleaning up	Avoid dust formation. Clean up promptly by scoop or vacuum. Flush the area with water. Clean up in accordance with all applicable regulations. 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. Room temperature - normal conditions. Use care in handling/storage. Store in closed original container in a dry place. Keep in properly labelled containers
Other information	Clean up in accordance with all applicable regulations

	Handling	and Storage		
Handling	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.			
Storage	Room temperature - normal conditions. Use care in handling/storage. Store in closed original container in a dry place. Keep in properly labelled containers Keep containers dry and tightly closed to avoid moisture absorption and contamination			
Further information				sture absorption and contami
	Exposure	Controls/Persona	al Protection	
Occupational exposure limits				
ACGIH	Туре	Value	% Metal	Form
antimony and compounds	TLV	0.5 mg/m3	8 - 13%	(as Sb)
chromium (III) and compounds	TLV	0.5 mg/m3	< 10%	(as Cr)
U.S OSHA				
antimony and compounds	PEL	0.5 mg/m3	8 - 13%	(as Sb)
chromium (III) and compounds	PEL	0.5 mg/m3	< 10%	(as Cr)
Engineering controls		enclosures, local exhai orne levels below reco		r other engineering controls
protective equipment				
Eye / face protection	Safety glasse	s with side-shields.		
Skin protection	Normal work	clothing (long sleeved	shirts and long p	ants) is recommended.
Respiratory protection	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 respiratory protection. MSHA/NIOSH respirators approved for dusts TC-21C or NIOSH approved cartridges for Non-oil aerosols, N95, N99, N100 (42 CFR 84). 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			
General hygiene considerations		protective equipment a iene and safety practic		dle in accordance with good

Hand protection

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

	Physical and Chemical Prope
Appearance	Powder
Physical state	Solid
Form	Powder
Color	yellow
Odor	None
Odor threshold	Not available
рН	8.5
Vapor pressure	Not applicable
Vapor density	Not applicable
Boiling point	Not applicable / Not applicable
Melting point/Freezing point	Not applicable
Solubility (water)	Negligible
Specific gravity	4.6
Relative density	Not available
Flash point	Not applicable
Flammability limits in air, upper, % by volume	Not applicable
Flammability limits in air, lower, % by volume	Not applicable
Auto-ignition temperature	Not applicable
VOC	0 % estimated
Evaporation rate	Not applicable
Viscosity	Not applicable.
Percent volatile	0 % estimated
Decomposition temperature	Not applicable
Flammability (solid, gas)	Not applicable
Loose Packing Density	4.40 lb/gal (0.50 g/cm3)

Physical and Chemical Properties

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	Stability and Reactivity	
Chemical stability	Stable under normal temperature conditions and recommended use.	
Conditions to avoid	None known	
Incompatible materials	None known	
Hazardous decomposition products	No hazardous decomposition products are known	
Possibility of hazardous reactions	Hazardous polymerization does not occur	
Materials to avoid	None known	
	Toxicological Information	
Routes of exposure	Inhalation. Ingestion.	
Sensitization	No data available.	
Acute effects	May be slightly irritating to skin and eyes. May cause respiratory irritation	
Component analysis - LD50	Refer to LD 50 information below	
Local effects	Product dust may be irritating to eyes, skin and respiratory system	
Chronic effects	No data available	
Subchronic effects	No data available	
Carcinogenicity	No data available.	
Skin corrosion/irritation	Contact with skin may cause irritation.	
Epidemiology	No epidemiological data is available for this product.	
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Reproductive effects	No data available	
Teratogenicity	No data available	
Symptoms and target organs	Product dust may be irritating to eyes, skin and respiratory system.	
Human experience	Product dust may be irritating to eyes, skin and respiratory system.	
Further information	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. Repeated overexposure to this compound may cause eye, skin and respiratory tract irritation. Some compounds of the metals used in the manufacturing of this pigment have demonstrated various toxic properties. However, there is no evidence that this pigment has these toxic characteristics	
Toxicological data	Test Results	
Components cobalt aluminate blue spinel (1345-16-0)	Acute Inhalation LD50 Rat: Not Tested Acute Oral LD50 Rat: 10000 mg/kg	

Acute Oral LD50 Rat: 10000 mg/kg

	Ecological Information	
Ecotoxicity	Not expected to be harmful to aquatic organisms	
Environmental effects	Not classified as an environmental hazard	
Aquatic toxicity	This material is not expected to be harmful to aquatic life	
Persistence and degradability	The product is not expected to be biodegradable.	
Bioaccumulation / Accumulation	The product does not contain any substances expected to be bioaccumulating	
	Disposal Considerations	
waste disposal	Dispose of in accordance with Local Authority requirements	
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	
	Transport Information	
Land transport ADR RID	Not regulated as dangerous goods Not regulated as dangerous goods	
Sea transport IMDG	Not regulated as dangerous goods	
Air transport ICAO IATA	Not regulated as dangerous goods Not regulated as dangerous goods	
U.S. D.O.T. Classification	Not regulated as dangerous goods	
CANADA Transport of dangerous goods	Not regulated as dangerous goods	
	Regulation Information	
US federal regulations	All components are on the U.S. EPA TSCA Inventory List. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. IARC has classified cobalt and cobalt compounds as possibly carcinogenic to humans. (Group 2B, Monograph #52)	
SARA 313	No Chemical Safety Assessment has been carried out. THIS PRODUCT CONTAINS A CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OR TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZA- TION ACT OF 1986 AND 40 CFR PART 372. THIS INFORMATION MUST BE INCLUDED IN ALL MSDS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL. 100% COBALT COMPOUND	
Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Section 302 extremely hazardous substance Section 311 hazardous chemical	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No No Yes	

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Inventory status

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) 269-052-1	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS) 1-284, 1-543, 1-558	Yes
Korea	Existing Chemicals List (ECL) KE-07865	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)

	Other Information
Further information	HMIS® is a registered trade and service mark of the NPCA.
HMIS® ratings	Health: 1* Flammability: 0 Physical hazard: 0 Personal protection: E
Other information	ACGIH = American Conference of Governmental Industrial Hygienists. OSHA = Occupational Safety and Health Administration. NTP = National Toxicology Program. NIOSH = National Institute of Occupational Safety and Health. CFR = Code of Federal Regulations.

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