

MATERIAL SAFETY DATA SHEET

Product identifier

Product name **COBALT CHROMITE BLUE-GREEN SPINEL** Cobalt Chromite Blue-Green Spinel, an inorganic pigment, is a reaction product of high temperature calcination in which Cobalt (II) Oxide, Chromium (III) Oxide, Aluminium (III) Oxide in varying amounts are homogeneously and ionically interdiffused to form a crystalline matrix of spinel. Its composition may include any one or a combination of the modifiers MgO, SiO₂, SrO₂, TiO₂ or ZnO

EC no. **269-072-0**
CAS no. **68187-11 -1**
Index no. **C.I. 77343 1.4**

Supplier's details

Name **Chemonova**
Address **3, Sarkar Bye Lane,
Kolkata – 700007, India**
Telephone **+919831004020**

Hazard Identification

Signal Word: WARNING

GHS classification in accordance with OSHA (29 CFR 1910.1200)

H303: May be harmful if swallowed

H313: May be harmful in contact with skin

H317: May cause an allergic skin reaction

H333: May be harmful if inhaled

H335: May cause respiratory irritation

Not a hazardous substance

P261: Avoid breathing dust.

P262: Do not get in eyes, on skin.

P264: Wash hands thoroughly
after handling.

Composition/information on ingredients

COBALT CHROMITE BLUE-GREEN SPINEL C.I. Pigment Blue 36 100%

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Formula Co(Al,Cr)₂O₄

First-aid measures

- Contact with skin: Wash with plenty of water and soap.
- Contact with eyes: Wash immediately with water for at least 10 minutes. Induce vomiting. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present the safety-data sheet. A suspension of activated charcoal in water, or liquid paraffin may be administered.
- Swallowing:
- Inhalation: Ventilate the premises. The patient is to be removed immediately from the contaminated premises and made to rest in a well ventilated area. Should the patient feel unwell, OBTAIN MEDICAL ATTENTION

Fire-fighting measures

- Recommended extinguishers: Water, CO2, Foam, Chemical powders, according to the materials involved in the fire.
- Extinguishers not to be used: None in particular.
- Risks arising from combustion: Avoid inhaling the fumes.
- Protective equipment: Use protection for the respiratory tract.

Accidental release measures

- Measures for personal safety: Use gloves and protective clothing. In the event of particulates aerosols use respiratory protection.
- Environmental measures: Keep away from drains, surface- and ground-water and soil
- Cleaning methods: Limit leakages with earth or sand. If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities. Remove the waste materials with a suitable device (for instance a suction pump) and dispose. After the product has been recovered, rinse the area and materials involved with water.

Handling and storage

- Handling precautions: Wear suitable gloves, glasses and face protection. Avoid contact and inhalation of the vapours/powders. Do not eat or drink while working.
- Incompatible materials: None in particular.
- Storage conditions: Always keep the containers tightly closed.
- Instructions as regards storage premises: Adequately ventilated premises.

Exposure controls / personal protection

	ACGIH-TLVs	OSHA PELs	NOISHA RELs
Cobalt, Metal, Dust & Fume (as Co)	0.02 mg/m ³	0.5 mg/m ³	N/A
Aluminum (as Al), Metal (Total Dust)	10 mg/mg ³ (total)	15 mg/m ³ (total)	N/A
Chromium (III) Compounds (as Cr)	0.5 mg/m ³	0.5 mg/m ³	0.5 mg/m ³

- Precautionary measures: Give adequate ventilation to the premises where the product is stored and/or handled.
- Respiratory protection: Use suitable respiratory protection.
- Protection for hands: Not needed for normal use.
- Eye protection: Not needed for normal use.
- Protection for skin: No special precaution must be adopted for normal use.

Physical and chemical properties

Appearance/form	Blue Green/Powder
Odor	None
SPECIFIC GRAVITY	4.96
pH	6.6
Melting point/freezing point	<1000 C
Initial boiling point and boiling range	NA
Flash point	NA
Evaporation rate	NA
Flammability (solid, gas)	none
Upper/lower flammability limits	NA
Upper/lower explosive limits	NA
Vapor pressure	NA
Vapor density	NA
Relative density	NA
Solubility(ies)	insoluble
Partition coefficient: n-octanol/water	NA
Auto-ignition temperature	NA
Decomposition temperature	NA
Viscosity	NA
Explosive properties	none
Oxidizing properties	none

Stability and reactivity

Chemical stability	STABLE
Possibility of hazardous reactions	WILL NOT OCCUR
Incompatible materials	NONE
Hazardous decomposition products	N/A

Toxicological information

ORAL	LD50 (male rats) > 10000 mg/kg
INHALATION	LC50 (rats; 4 hours) > 5.05 mg/L air (actual concentration)
SKIN	N/A

**NON IRRITATING TO THE SKIN NON IRRITATING TO THE EYES
THIS PIGMENT IS NOT LISTED IN THE NATIONAL TOXICOLOGY PROGRAM (NTP)
REPORT ON CARCINOGENS.
IT IS NOT LISTED AS A POTENTIAL CARCINOGEN IN THE INTERNATIONAL AGENCY FOR
RESEARCH ON CANCER(IARC) MONOGRAPHS.
IT IS NOT FOUND TO BE A CARCINOGEN BY THE OCCUPATIONAL SAFETY AND HEALTH
ADMINISTRATION(OSHA)**

Ecological information

ECOTOXICITY	NO DATA
DEGRADABILITY	NO DATA
MOBILITY	NO DATA
BIOACCUMULATIVE	NO DATA

Disposal considerations

Disposal of the product	Contain spillage and scoop or vacuum. Avoid making dust put in appropriate container for disposal. Waste disposal method in accordance with Central, State and Local Laws.
Disposal of contaminated packaging	Dispose of as unused product.
Waste treatment	MUST BE PROCESSED THROUGH IN-HOUSE TREATMENT
Sewage disposal	AVOID CITY DRAINS

Transport information

UN Number	None
UN Proper Shipping Name	None
Transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None
Transport in bulk	None