



L. CORNELISSEN & SON

Artists' Colourmen

Suppliers of Materials for Painters, Gilders & Printmakers

Safety Data Sheet according to Directive 91/155/EC

Revision Date: May 2016

1) Identification of the substance/preparation and the company

Trade Name: Cornelissen Cobalt Pigments. Includes: Cobalt Yellow (Aureolin), Cerulean Blue, Cobalt Blue, Manganese Blue, Cobalt Violet Light, Cobalt Green Deep, Cobalt Green Light, Cobalt Turquoise (Rinman's).

Application: Artists' Pigment

Manufacturer/Supplier:

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www.cornelissen.com

2) Composition/Information on ingredients

Cobalt Yellow

Inorganic Pigment Pigment Yellow 40 CAS No: 13782-01-9
Artificial mineral pigment from cobalt salts and potassium nitrate.

Cerulean Blue

Inorganic Pigment Pigment Blue 35 CAS No: 68187-05-3
Co-Sn-oxide

Cobalt Blue

Inorganic Pigment Pigment Blue 28 CAS No: 1345-16-0
Co-Al oxide spinel

Manganese Blue

Inorganic Pigment Pigment Blue 33 CAS No: N/A
Barium manganate with barium sulfate

Cobalt Violet Light

Inorganic Pigment Pigment Violet 47 CAS No: 13455-36-2

Cobalt Green Deep

Inorganic Pigment Pigment Green 19 CAS No: 8011-87-8
Cobalt zincate

Cobalt Green Light

Inorganic Pigment Pigment Green 19 CAS No: 8011-87-8
Cobalt zincate

Cobalt Turquoise (Rinman's)

Inorganic Pigment Pigment Blue 28 CAS No: 7727-43-7
barium sulphate

3) Hazards Identification

Classification according to EC Regulation No. 67/548 or No.1999/45

Hazards: Excessive and prolonged exposure may result in damage to the lungs.
Some cobalt compounds have been known to produce dermatitis and sensitisation.

Risk Phases: R20/22 Harmful by inhalation and if swallowed.
R33 Danger of cumulative effects
R43 May cause skin sensitisation by skin contact.

4) First Aid Measures

Eye contact: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

Skin contact: Wash with soap & water & rinse thoroughly. Remove contaminated clothing.

Inhalation: Remove subject to fresh air and keep calm. If unconscious place in recovery position and seek medical advice. In case of allergic symptoms, especially respiratory tract related, seek medical help immediately.

Ingestion: Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.

5) Fire Fighting Measures

Extinguishing Media: Use extinguishing media for surrounding fire. Product itself does not burn.

Unsuitable Extinguishing Media: High volume water jet.

Special hazards arising from the substance or mixture

Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.
May emit harmful or toxic fumes.

Advice for firefighters

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

Further information:

Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6 Accidental Release Measures

Personal precautions: Avoid formation of dust. Clean up with appropriate personal protective equipment. Ensure adequate ventilation.

Environmental precautions: Prevent contamination of soil, drains and surface waters.

Methods of cleaning/absorption: Take up mechanically and collect in suitable container for disposal. Avoid dust formation.

7) Handling and Storage

Precautions for safe handling

Advice on safe handling: For personal protection see section 8. No special handling advice required. Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion: Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures: General industrial hygiene practice.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep container tightly closed in a dry and well-ventilated place. Electrical installations/working materials must comply with the technological safety standards.

Advice on common storage: No special restrictions on storage with other products. No materials to be especially mentioned.

Other data: Keep in a dry place. No decomposition if stored and applied as directed.

Specific end use(s) Specific use(s): Artists' pigment

8) Exposure/Personal Protection

Cobalt Compounds (as Co) 0.10mg/m³

Manganese Blue No information available

Cobalt Turquoise (Rinman's):

barium sulphate TWA (Inhalable) 10 mg/m³ 2005-04-06 GB EH40

barium sulphate TWA (Respirable) 4 mg/m³ 2005-04-06 GB EH40

General protective measures:

Personal protective equipment

Eye protection: Safety glasses

Hand protection: For prolonged or repeated contact use protective gloves.

Skin and body protection: Protective suit

Respiratory protection: No personal respiratory protective equipment normally required.

Protective measures: Wear suitable protective equipment.
Provide adequate ventilation.
Do not inhale dust.
Do not eat, drink or smoke during work.
Wash hands before breaks and at the end of the shift

Environmental exposure controls

General advice: No special environmental precautions required.

9) Physical and chemical Properties

Appearance: Powder

Odour: None

Boiling point: N/A

Melting point: >1000°C

Flash point: N/A.

Density: 4 – 5 g/cm³

pH: 7

Solubility: Insoluble in water.

Flammability: N/A.

Extinguishing media: No restriction

10) Stability and Reactivity

Stability: Stable under normal conditions of storage and use. No decomposition if stored and applied as directed.

Chemical stability:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions:	Hazardous reactions - No hazards to be specially mentioned. Dust may form explosive mixture in air.
Conditions to avoid:	No data available
Incompatible materials:	No data available
Hazardous decomposition products:	Stable under normal conditions. Other information - Stable under normal conditions.

11) Toxicological Information

Health Effects: Prolonged or repeated exposure above OES may cause fibrosis of the lungs.

Cobalts:	Oral Toxicity: LD50 (rat)>5.0g/Kg
Manganese Blue	No information available
Cobalt Turquoise (Rinman's):	Acute toxicity - no data available Components: barium sulphate: Acute oral toxicity: Acute toxicity estimate: 500 mg/kg Method: Converted acute toxicity point estimate

Primary effects

Irritant effect on skin: Skin contact may cause local irritation in skin folds or beneath tightly worn clothes.

Irritant effect on eyes: Dust may irritate eyes, skin and respiratory tract.

Sensitization: No information available.

Reproductive toxicity: No information available.

Cancerogenicity: No data available.

Specific target organ toxicity (STOT):

Single exposure: no information available.

Repeated exposure: no information available.

Further toxicological effects: Inhalation: can irritate the respiratory tract.

Skin contact: slight irritant effect.

Eye contact: may cause transient eye irritation.

12) Ecological Information

Persistency and Degradability: Not biodegradable.

Bioaccumulation: No bioaccumulation expected.

Mobility: No information available.

Ecological effects

Aquatic toxicity: Co-Al Spinel Blue.

Fish Toxicity: LC50:>1000 mg/l
Daphnia Toxicity: EC50:>10000 mg/l

Further information

Water hazard class: 0

The product is virtually insoluble in water and thus can be separated from water mechanically in suitable effluent treatment plants.

13) Disposal Information

Product: Examine possibilities for recycling.
Return large quantities to the manufacturer.
Dispose in accordance with all applicable local & national regulations.

Uncleaned Packaging: Dispose according to product.

14) Transport Information

Not dangerous cargo.

Keep separated from foodstuffs.

15) Regulatory Information



Harmful

OEL	Cobalt Compounds - 4.0% in product	0.10mg/m ³
	Manganese Blue - No information available	

16) Other information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations.

To best of our knowledge the information contain herein is accurate. However, neither the above supplier assumes any liability whatsoever for the accuracy or completeness of the information herein

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist