

Suppliers of Materials for Painters, Gilders & Printmakers

Safety Data Sheet according to Regulation (EC) No. 1907/2006

Revision Date: August 2016

1) Identification of the substance/preparation and the company

Trade Name: Cornelissen General Pigments (excludes pigments with cobalt, chrome, lead, etc.) Includes: Indian Yellow – Tartrazine, Alizarin Violet, Manganese Violet, Ultramarine Violet, Ultramarine Pink, Alizarin Crimson, Coral Red, Quinacridone Magenta, Quinacridone Red, Quinacridone Scarlet, Rose Madder, Vermillion Imitation, Red Bole (Iron Oxide), Antwerp Blue, Azure Blue, Egyptian Blue, Indigo Blue - Genuine, Indigo Blue - Synthetic, Lapis Lazuli (Light and Dark) - Genuine, Oriental Blue, Phthalo Mona Blue, Prussian Blue, Smalt Light, Ultramarine Blue Dark, Ultramarine Blue Light, Ultramarine Blue Limewash, Universal Blue, Chromium Oxide, Phthalo Green, Phthalo Turquoise, Viridian Green, Titanium White, Graphite (200 mesh), Carbon Black, Ivory Black, Lamp Black, Mars Black, Spinel Black, Vine Black.

Application: Artists' Pigment

Manufacturer/Supplier:

L Cornelissen & Son Ltd 105 Great Russell Street London WC1B 3RY

Tel: 020 7636 1045 Fax: 020 7636 3655

www.cornelissen.com

2) Composition/Information on ingredients

General Non-Harmful Pigments.

Manganese Ammonium Pyro Phosphate

Indian Yellow – Tartrazine Monoazo	PY100	CAS No: 12225-21-7
Alizarin Violet	PV51	
Pigment Violet 5:1	20-35%	CAS No: 1328-04-7
Alumina	60-70%	CAS No: 1344-28-1
Barium Sulphate	<10%	CAS No: 7727-43-7
Surfactant(s)	<10%	
Manganese Violet	PV16	CAS No: 10101-66-3

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Ultramarine Violet PV15 CAS No: 12769-96-9 Sodium Alumino Sulphosilicate Ultramarine Pink PR259 CAS No: 12769-96-9 Sodium Alumino Sulphosilicate PR83 Alizarin Crimson CAS No: 72-48-0 Synthetic Organic Pigment based on Dyestuff Alizarin Coral Red PR255 CAS No: 54660-00-3 Diketo-pyrrolo-pyrrol Quinacridone Magenta PR122 CAS No: 980-26-7 Quinacridone Quinacridone Red PR19 CAS No: 1047-16-1 Quinacridone Quinacridone Scarlet PR209 CAS No: 38720-66-0 dichloro-5,12-dihydroquino[2,3-b]acridine-7,14-dione Vermillion Imitation PR4+PY1+PW21 CAS No: TBC CAS No: TBC Rose Madder NR9 Red Bole CAS No: 1309-037-1 Red Iron Oxide PB27+PW22 Antwerp Blue CI Pigment Blue 29 CAS No: 101357-30-6 Barium Sulphate CAS No: 7727-43-7 Azure Blue **PB28** CAS No: 1345-16-0 Egyptian Blue **PB31** CAS No: N/A Copper Silicate Blue - CaCuS₁₄O₁₀ Indigo Blue – Genuine NB1 CAS No: 482-89-3 Natural Product Indigo Blue – Synthetic PB66 CAS No: 482-89-3 CI Vat Blue 1 PB29 Lapis Lazuli - Genuine CAS No: N/A Light and Dark - Sodium aluminium silicate, contains sulphur, 3NaAlSiO4·NaS3 PB29 CAS No: 57455-37-5 Oriental Blue Sodium Alumino Sulphosilicate Phthalo Mona Blue PB15:3 CAS No: 147-14-8 Phthalocyanine (Cu) Prussian Blue PB27 CAS No: 25869-00-5 Ferroprusside Smalt Blue PB32 CAS No: N/A Cobalt Potassium Silicate Blue PB29 Ultramarine Blue Dark Sodium Alumino Sulphosilicate CAS No: 57455-37-5 Silicic Acid Aluminium Sodium Salt Sulphurised CAS No: 101357-30-6

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Ultramarine Blue Light PB29 Sodium Alumino Sulphosilicate Silicic Acid Aluminium Sodium Salt Sulphurised		CAS No: 57455-37-5 CAS No: 101357-30-6
Ultramarine Blue Limewash PB29 Sodium Alumino Sulphosilicate Silicic Acid Aluminium Sodium Salt Sulphurised		CAS No: 57455-37-5 CAS No: 101357-30-6
Universal Blue Sodium Alumino Sulphosilicat Silicic Acid Aluminium Sodium		CAS No: 57455-37-5 CAS No: 101357-30-6
Chromium Oxide Green Chromium(III)Oxide	PG17	CAS No: 1308-38-9
Phthalo (Mona) Green Phthalocyanine	PG7	CAS No: 1328-53-6
Phthalo Turquoise Phthalocyanine Phthalocyanine Barium Sulphate	PB15:3+PG7+PW21 25-50% 10-25% 25-50%	CAS No: 147-14-8 CAS No: 1328-53-6 CAS No: 7727-43-7
Viridian Green Chromic Oxide Dihydrate Boron Oxide	PG18 92-95% <3.1%	CAS No: 12001-99-9 CAS No: 1303-86-2
Titanium White Titanium Dioxide	PW6	CAS No: 1317-80-2
Graphite (200 mesh) Crystallised Carbon	PBk10	CAS No: 7782-42-5
Carbon Black Mogul L Carbon Black	PBk7	CAS No: 1333-86-4
Ivory Black Calcium Phosphate Carbon Calcium Carbonate Lamp Black	PBk9 >70-90% 10-30% 1-10% PBk6	CAS No: 7790-076-3 CAS No: 1333-086-4 CAS No: 1317-65-3 CAS No: 1333-86-4
Carbon	TDKO	C/10 1vo. 1555-00-4
Mars Black triiron tetraoxide	PBk11	CAS No: 1317-61-9
Spinel Black Manganese Ferrite Black	PBk26	CAS No: 68186-94-7
Vine Black Fe2O3 SiO2 CaO MgO Al2O3 FeO	PBk8 70-80% 3-4% 1-3% 0.1% 0.2-1% 0.3%	CAS No: 1309-38-2 CAS No: 763-86-9 CAS No: 1305-78-8 CAS No: 1309-48-4 CAS No: 1344-28-1

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3) Hazards Identification

Classification of the substance or mixture

Classification under CLP: This product has no classification under CLP.

Label elements: This product has no label elements.

Other hazards: This substance is not identified as a PBT substance.

4) First Aid Measures

Description of first aid measures

Eye contact: Flush eye with flowing water. Check for and remove any contact

lenses. Get medical attention if irritation occurs.

Skin contact: Wash contaminated skin with soap & water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Inhalation: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire,

symptoms may be delayed.

Ingestion: Wash out mouth with water. Remove victim to fresh air and keep

at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. In each case if symptoms develop seek medical

attention.

Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact: Exposure to airborne concentrations above statutory or

recommended exposure limits may cause irritation of the eyes.

Inhalation: Exposure to airborne concentrations above statutory or

recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause

a health hazard. Serious effects may be delayed following

exposure.

Skin contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

irritation redness

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Inhalation: Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact: No specific data.

Ingestion: No specific data.

Indication of any immediate medical attention and special treatment needed

Notes to physician: In case of inhalation of decomposition products in a fire,

symptoms may be delayed. The exposed person may need to be

kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment

5) Fire Fighting Measures

Extinguishing media

Suitable extinguishing media: No restriction in fire situations. Suitable

extinguishing media for the surrounding fire should be used. Avoid use of a solid water stream or jet as it may scatter and

spread fire.

Unsuitable extinguishing media: Water jet.

Special hazards arising from the substance or mixture

Hazards from the substance or mixture: Fine dust clouds may form explosive

mixtures with air.

Hazardous thermal decomposition products: Decomposition products may include the

following materials: carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds

smoke

oxides of nitrogen

Advice for firefighters

Special protective actions for fire-fighters: Promptly isolate the scene by removing all

persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed

containers cool.

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Special protective equipment for fire-fighters: Fire-fighters should wear appropriate

protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for

chemical incidents.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal

risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in 'For non-emergency personnel'.

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill: Move containers from spill area. Vacuum or

sweep up material and place in a designated, labelled waste container. Use spark-proof tools and explosion-proof equipment. Dispose of via a

licensed waste disposal contractor.

Large spill: Move containers from spill area. Approach release

from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency

contact information and section 13 for waste

disposal.

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7) Handling and Storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment

(see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to

appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during

transfer by grounding and bonding containers and equipment before transferring material.

Advice on general occupational hygiene:

e: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Specific end use(s)

Recommendations: Not available.

Industrial sector specific solutions: Not available.

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8) Exposure/Personal Protection

Control parameters

Occupational exposure limits

General Pigments: No exposure limit value known. Observe OEL limits for inhalable and respirable nuisance dust.

Mars Black: EH40/2005 WELs (United Kingdom (UK),

12/2011).

STEL: 10 mg/m³, (as Fe) 15 minutes. Form:

Fume

TWA: 5 mg/m³, (as Fe) 8 hours. Form: Fume DNEL: Dust Inhalable 10 mg/m³, Respirable

dust 3 mg/m³

Exposure controls





Appropriate engineering controls:

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If operating conditions cause high dust concentrations to be produced, use dust goggles.

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Skin protection:

Hand protection: Chemical-resistant, impervious gloves complying

with an approved standard should be worn at all times when handling chemical products if a risk

assessment indicates this is necessary.

Body protection: Personal protective equipment for the body

should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this

product.

Other skin protection: Appropriate footwear and any additional skin

protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before

handling this product.

Respiratory protection: Use a properly fitted, air-purifying or air-fed

respirator complying with an approved standard if

a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected

respirator.

Environmental exposure controls: Emissions from ventilation or work process

equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce

emissions to acceptable levels.

9) Physical and chemical Properties

Appearance: Powder

Odour: None

Boiling point: N/A

Melting point: General Products: >1000°C

Coral Red: >300 °C
Lapis Lazuli >350°C
Manganese Violet >400 °C
Prussian Blue >140°C
Phthalos x 2 >200 °C

Auto ignition temperature: Quinacridone Red >180 °C

Phthalo Green >220 °C Mars Black >80 °C

Decomposition temperature:

Flash point: N/A.

Ph: 4-11

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Solubility: Insoluble in water.

Flammability: N/A.

Extinguishing media: No restriction

10) Stability and Reactivity

Reactivity: No specific test data related to reactivity available for this product

or its ingredients.

Chemical stability: The product is stable. Under normal conditions of storage and

use, hazardous polymerization will not occur.

Possibility of hazardous reactions: Under normal conditions of storage and use,

hazardous reactions will not occur.

Conditions to avoid: Avoid the creation of dust when handling and avoid all possible

sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

Prevent dust accumulation.

Incompatible materials: Reactive or incompatible with the following materials:

oxidizing materials

Hazardous decomposition products: Under normal conditions of storage and use,

hazardous decomposition products should not be produced

except:

Manganese Violet: Ammonium salts given off during combustion/decomposition.

Alizarin Crimson, Quinacridones x 3, Phthalo Mona Blue, Phthalo Mona Green: Hydrogen chloride (HCL), Oxides of carbon, copper and nitrogen given off during combustion/decomposition.

Coral Red - substances to avoid: strong oxidizing agents, strong bases, strong acids.

Prussian Blue: ammonia, hydrogen cyanide, dicyanogen and nitrous oxides given off during combustion/decomposition.

Ultramarine Products: React with acids releasing hydrogen sulphide gas.

Viridian Green: A small amount (<0.1% as Cr) of reversion to hexavalent chromium may occur if the dry chromium (III) oxide powder is exposed to elevated temperatures.

Carbon Black, Lamp Black: May react exothermically upon contact with strong oxidizers.

Ivory Black: In combustion emits toxic fumes of carbon dioxide/carbon monoxide.

Mars Black: At temperatures above 80 °C the product may become unstable and oxidise. This generates additional heat which, under unfavourable conditions, may result in the combustion of flammable materials. The product should therefore not be stored near heat sources.

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11) Toxicological Information

Information on toxicological effects

Acute toxicity Not available. Conclusion/Summary: Irritation/Corrosion Conclusion/Summary: Not available. Sensitization Not available. Conclusion/Summary: Mutagenicity Not available. Conclusion/Summary: Not available. Carcinogenicity Conclusion/Summary: Not available. Reproductive toxicity Conclusion/Summary: Teratogenicity Conclusion/Summary: Not available. Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) Not available. Aspiration hazard Not available. Information on the likely routes of exposure Not available.

Potential acute health effects

Eye contact: Exposure to airborne concentrations above statutory or

recommended exposure limits may cause irritation of the eyes.

Inhalation: Exposure to airborne concentrations above statutory or

recommended exposure limits may cause irritation of the nose, throat and lungs. Exposure to decomposition products may cause

a health hazard. Serious effects may be delayed following

exposure.

Skin contact: No known significant effects or critical hazards.

Ingestion: No known significant effects or critical hazards

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

Irritation redness

Inhalation: Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact: No specific data.

Ingestion: May cause discomfort if swallowed.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: Not available. Potential delayed effects: Not available.

Long term exposure

Potential immediate effects: Not available. Potential delayed effects: Not available.

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Potential chronic health effects: Not available.

Conclusion/Summary: Not available.

General: Repeated or prolonged inhalation of dust may lead to

chronic respiratory irritation.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: General Pigments: No known significant effects or critical

hazards.

Mars Black: Repeated or prolonged inhalation of dust may

lead to chronic respiratory irritation.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Other information: Not available.

Oral Toxicity:

General Products LD50 (rat)>10g/Kg Indian Yellow – Tartrazine LD50 (rat) > 2g/KgAlizarin Violet LD50 (rat)>5g/KgManganese Violet LD50 (rat)>12.9g/Kg Alizarin Crimson LD50 (rat)>2g/KgCoral Red LD50 (rat)>5g/KgQuinacridones x 3 LD50 (rat) > 2g/KgLD50 (rat) > 5g/KgAzure Blue Indigo Blue – Genuine LD50 (rat)>1.2g/Kg Indigo Blue – Synthetic LD50 (rat) > 5g/KgPhthalo Mona Blue LD50 (rat)>2g/Kg Prussian LD50 (rat)>5.1g/Kg Phthalo (Mona) Green LD50 (rat) > 5g/KgPhthalo Turquoise LD50 (rat) > 2g/KgViridian Green LD50 (rat)>5g/Kg Carbon Black, Lamp Black LD50 (rat)>8g/Kg Mars Black LD50 (rat) > 5g/KgSpinel Black LD50 (rat) > 2.2g/KgBarium Sulphate LD50 (rat) > 2g/Kg

12) Ecological Information

Toxicity

Conclusion/Summary: Not available.

Persistence and degradability

Conclusion/Summary: Not available.

Bioaccumulative potential

General Products: Not available.

	$\mathbf{LogP}_{\mathrm{ow}}$	BCF	Potential
Quinacridone Scarlet	1.56	-	low

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Mobility in soil

Soil/water partition coefficient (Koc): Not available Mobility:

Not available

Results of PBT and vPvB assessment

PBT: Not available.

P: Not available. B: Not available. T: Not

available.

vPvB: Not available.

vP: Not available. vB: Not available.

Other adverse effects

No known significant effects or critical hazards.

Notes

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

13) Disposal Information

Waste treatment methods

Product

Methods of disposal: The generation of waste should be avoided or minimized

wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental

protection and waste disposal legislation and any regional local

authority requirements.

Examine possibilities for recycling. Return large quantities to the manufacturer.

Manganese violet should not be washed into the drainage system or where there is a risk of contact with strong alkalis.

Hazardous waste: Within the present knowledge of the supplier, this product is not

regarded as hazardous waste, as defined by EU Directive

91/689/EEC

Packaging

Methods of disposal: The generation of waste should be avoided or minimized

wherever possible. Waste packaging should be recycled.

Incineration or landfill should only be considered when recycling

is not feasible.

Special precautions: This material and its container must be disposed of in a safe way.

Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with

soil, waterways, drains and sewers.

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14) Transport Information

Not regulated for transport.

Keep separated from foodstuffs.

15) Regulatory Information

Labelling

This product is not a substance subject to mandatory marking.

Safety, health and environmental regulations/legislation specific for the substance or mixture.

EU Regulation (EC) No. 1907/2006 (REACH): Not listed

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

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