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Edition: March 2016

Titanium White Pigment

(TNL 865010-861010)

1. Identification of the substance/preparation and of the company/undertaking

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

Company name: Lawrence Art Supplies
36 Kingsthorpe Road
Hove
BN3 5HR

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2. Hazards identification

These products are not hazardous to health or the environment according to EU criteria.

3. Composition/information on ingredients

General Non-Harmful Pigments.

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
Manganese Ammonium Pyro Phosphate		
Ultramarine Violet	PV15	CAS No: 12769-96-9
Sodium Alumino Sulphosilicate		

Ultramarine Pink Sodium Alumino Sulphosilicate	PR259	CAS No: 12769-96-9
Alizarin Crimson Synthetic Organic Pigment based on Dyestuff Alizarin	PR83	CAS No: 72-48-0
Coral Red Diketo-pyrrolo-pyrrol	PR255	CAS No: 54660-00-3
Quinacridone Magenta Quinacridone	PR122	CAS No: 980-26-7
Quinacridone Red Quinacridone	PR19	CAS No: 1047-16-1
Quinacridone Scarlet Quinacridone	PR209	CAS No: 3089-16-5
Vermillion Imitation	PR4+PY1+PW21	CAS No: TBC
Rose Madder	NR9	CAS No: TBC
Red Bole Red Iron Oxide		CAS No: 1309-037-1
Antwerp Blue CI Pigment Blue 29 Barium Sulphate	PB27+PW22	CAS No: 101357-30-6 CAS No: 7727-43-7
Azure Blue	PB28	CAS No: 1345-16-0
Egyptian Blue Copper Silicate Blue - $\text{CaCuSi}_4\text{O}_{10}$	PB31	CAS No: N/A
Indigo Blue – Genuine Natural Product	NB1	CAS No: 482-89-3
Indigo Blue – Synthetic CI Vat Blue 1	PB66	CAS No: 482-89-3
Lapi Lazuli - Genuine Light and Dark - Sodium aluminium silicate, contains sulphur, $3\text{NaAlSiO}_4 \cdot \text{Na}_2\text{S}_3$	PB29	CAS No: N/A
Oriental Blue Sodium Alumino Sulphosilicate	PB29	CAS No: 57455-37-5
Phthalo Mona Blue Phthalocyanine (Cu)	PB15:3	CAS No: 147-14-8
Prussian Blue Ferroprusside	PB27	CAS No: 25869-00-5
Smalt Blue Cobalt Potassium Silicate	PB32	CAS No: N/A
Blue Ultramarine Blue Dark Sodium Alumino Sulphosilicate Silicic Acid Aluminium Sodium Salt Sulphurised	PB29	CAS No: 57455-37-5 CAS No: 101357-30-6
Ultramarine Blue Light Sodium Alumino Sulphosilicate Silicic Acid Aluminium Sodium Salt Sulphurised	PB29	CAS No: 57455-37-5 CAS No: 101357-30-6

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

4. First aid measures

Eye contact: Flush eye with flowing water.

Skin contact: Wash with soap & water.

Inhalation: Remove subject to fresh air. develop seek medical attention.

Ingestion: No special measure required. Do not induce vomiting.

In each case if symptoms develop seek medical attention.

5. Fire-fighting measures

This product is not flammable and does not produce a toxic effect.

Extinguishing Media: No restriction in fire situations. Suitable extinguishing media for the surrounding fire should be used.

Avoid use of a solid water stream as it may scatter and spread fire.

Unusual fire and explosive hazards: Large quantities of dust with air may give rise to explosive mixture.

6. Accidental release measures

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

Environmental precautions: This product is not harmful to the environment. Do not allow significant spillages to enter the ground water system.

7. Handling and storage

A moderately dry, well ventilated area is considered suitable for handling and storage.

Usual precautions for nuisance dust should be observed.

Take precautionary measures against static discharges.

In case of release or spillage clean up with wetting of material and avoid dusting.

8. Exposure controls/personal protection

Respiratory protection: Use mask during work in unventilated and dusty spaces.

Skin protection: Wear suitable protective clothing.

Eye protection: Use safety glasses

Observe OEL limits for inhalable and respirable nuisance dust.

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
Flash point:	N/A.
Ph:	4-11
Solubility:	Insoluble in water.
Flammability:	N/A.
Extinguishing media:	No restriction

10. Stability and reactivity

Stability: Stable under normal conditions of storage and use.

Hazardous reactions

Dedusting of powdered pigments is carried out for reasons of industrial health. The dedusting process is not however so extensive that a risk of dust explosion can be ruled out when large quantities are being processed.

None other for these products except:

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

Alizarin Crimson, Quinacridones x 3, Phthalo Mona Blue, Phthalo Mona Green: Oxides of carbon 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.

11. Toxicological information

These products are non toxic and non-irritating.

Oral Toxicity:

General Products	LD50 (rat)>10g/Kg
Indian Yellow – Tartrazine	LD50 (rat)>2g/Kg
Alizarin Violet	LD50 (rat)>5g/Kg
Manganese Violet	LD50 (rat)>12.9g/Kg
Alizarin Crimson	LD50 (rat)>2g/Kg
Coral Red	LD50 (rat)>5g/Kg
Quinacridones x 3	LD50 (rat)>2g/Kg
Azure Blue	LD50 (rat)>5g/Kg
Indigo Blue – Genuine	LD50 (rat)>1.2g/Kg
Indigo Blue – Synthetic	LD50 (rat)>5g/Kg
Phthalo Mona Blue	LD50 (rat)>2g/Kg
Prussian	LD50 (rat)>5.1g/Kg
Phthalo (Mona) Green	LD50 (rat)>5g/Kg
Phthalo Turquoise	LD50 (rat)>2g/Kg
Viridian Green	LD50 (rat)>5g/Kg
Carbon Black, Lamp Black	LD50 (rat)>8g/Kg
Mars Black	LD50 (rat)>5g/Kg
Spinel Black	LD50 (rat)>2.2g/Kg
Barium Sulphate	LD50 (rat)>2g/Kg

Symptoms/Exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness. Under extreme conditions mechanical action arising from eye contact (action of dust) may cause slight temporary irritation of the mucosa.

Ingestion: There may be irritation of the throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest

12. Ecological information

This product is not harmful to the environment.

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

13. Disposal considerations

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.

Dispose in accordance with all applicable local & national regulations.

14. Transport information

Not dangerous cargo.

Keep separated from foodstuffs.

15. Regulatory information

This product is not a substance subject to mandatory marking within EC Directive 67/548/EC.

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