

MATERIAL SAFETY DATA SHEET

MICHAEL HARDING'S ARTISTS OIL COLOURS

SERIES 1-6 (NON-TOXIC, NON HAZARDOUS, NON FLAMMABLE)

1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION (A PREPARATION IS A MIXTURE OF SUBSTANCES) AND THE NAME OF THE SUPPLYING COMPANY.

PRODUCT NAME	Michael Harding's Artists Oil Colours
IDENTIFICATION NO.	Series 1: 101/102/103/109/110/112/113/114/115/116/117/118/119/ 120/121/ 122/ 123/ 124/125/126/127/128/129/130 Series 2:202/203/204/205/207/208/209/210/211/212/213/214/215 /216/217/218/219/220/221/222 Series 3: 301/302/303/304/304/305 Series 4: 401/402/403/404/406 Series 5: 501/502/503/504/505/506/507/508/511 Series 6: 601/602/603 Series 7 : 702
PRODUCT USE/CLASS	Oil Paint for Artists
MANUFACTURER	Michael Harding's Art Materials LLP Unit 36, Springvale Industrial Estate Cwmbran NP44 5BD Gwent, UK
TELEPHONE (information)	+44 (0)1633 484 700
PREPARER	Michael Harding

EMERGENCY TELEPHONE UK	+00 197 854 94029 or 00 44 486 91437 (Michael Harding)
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2. COMPOSITION AND INFORMATION ON INGREDIENTS

Contains natural drying oils, organic and inorganic pigments and additives
Shades 401/402/403/404/502/503/504/505 contain Cadmium; 506/507/508/601/602 contain Cobalt.

See detailed list in Annex 1

3. HAZARDS IDENTIFICATION

Particular information pertaining specific risk for human/environment:

The product does not require a hazard warning label in accordance with Directive 67/548/EC. The shades containing Cadmium or Cobalt contain a chemical known to the State of California to cause cancer // to cause cancer by means of inhalation and birth defects or other reproductive harm.

No Hazardous ingredients.
The product is not classed as flammable

4. FIRST AID MEASURES

	Normal use	Chronic exposure (abnormal use)
After skin contact:	When in contact with the skin, clean with soap and water.	May cause mild irritation, allergic skin rashes, itchiness, eczema Protect with gloves
After eye contact:	In case of contact with eyes, rinse gently but thoroughly (10-15min) with plenty of water. If symptoms persist, seek medical advice.	No data No probable route of exposure

Inhalation:	Not applicable	May cause respiration allergies, shortness of breath, easy fatigability and chest pain
After ingestion:	Give water to drink. Do not induce vomiting. Seek medical advice immediately. No probable route of exposure	If large quantities are ingested, it may cause nausea (stomach ache) and sickness.

5. FIRE-FIGHTING MEASURES

Fire precautions: Keep cool

Suitable extinguishing media	ABC powder Carbon dioxide Foam Water mist
Extinguishing media that must NOT be used for safety reasons	Water
Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases	In the event of fire the following can be released: Poisonous metal oxides Sulphur oxides (SO ₂) Carbon dioxide (CO ₂) Carbon monoxide (CO)
Special protective equipment for firefighting	In case of combustion use a suitable breathing apparatus
Other information	Fire residues must be disposed of in a proper manner.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions	Do not allow to enter drains or waterways Dispose in accordance with federal, state and local regulations.
Methods for cleaning up/taking up	Remove mechanically. Pick up rest with binding material (eg. Sawdust, sand, universal binder)

7. HANDLING AND STORAGE

Handling	Protect against fire and explosion. The product is not easily combustible, however it can burn. Do not spray apply the shades containing Cadmium, a chemical known to the state of California to cause cancer by means of inhalation.
In case of spilling	Absorb on inert substrate Place in suitable container for disposal
Storage	Cool and dry.
Waste disposal	According to local regulations Rags and absorbent materials should be immersed in water

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with occupational exposure limits to be monitored: None

Personal protective equipment:

General Protective and Hygiene measures	Do not eat, drink or smoke during work time Avoid prolonged and/or repeated contact with skin Do not spray apply Wash hands/face immediately after use
Respiratory protection	Normally not needed
Ventilation	Normally not needed
Protective gloves / barrier cream to protect the skin	Normally not needed, but recommended Prolonged contact with skin may cause dermatitis.
Eye protection	Normally not needed Safety glasses if eye contact is likely
Other protective clothing or equipment	Normally not needed

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form	Pasty, Viscous
Colour	Depends on ingredients used (see section 2.)
Odour	Slightly aromatic

Safety Data:

Density	Value: 1,3 – 2,4 g/cm ³ Reference temperature: 20 °C
Soluble in/ miscible with	White spirits in all proportions
Soluble in water	No
Reactivity in water	Non reactive
Flash Point	>230°C upper: not explosive lower: not
Auto-ignition temperature	explosive >300°C
Boiling Point	Not relevant
Melting Point	Not relevant
Vapor Pressure/Density	Not relevant

10. STABILITY AND REACTIVITY

Thermal decomposition:	Not applicable
Hazardous polymerization products	None
Stability	Stable under normal storage conditions
Incompatibility	Combustible matter e.g. cotton waste

11. TOXICOLOGICAL INFORMATION

Sensitization evaluation: Non sensitizing

12. ECOLOGICAL INFORMATION

Data on elimination (persistence and degradability)

Biodegradability evaluation	Not readily degradable
Biodegradability remarks	The pigment is slightly soluble in water, it can be eliminated mechanically from the water in suitable purification plants.
Partially biodegradability (remark)	The product is partially biodegradable. Substantial residues remain.
Slightly biodegradability (remark)	Pigments are highly stable in accordance with the specifications and therefore only slightly biodegradable in the conditions of sewage treatment plants or surface waters.
Fully biodegradability (remark)	The organic component of the product is biodegradable
CONCLUSION	NOT READILY DEGRADABLE

13. DISPOSAL CONSIDERATIONS

Product EWC waste code: 080112 Colour and lacquer residues

Packaging: emptied packaging can be recycled

14. TRANSPORT INFORMATION

The product does NOT constitute a hazardous substance in national/international road, rail, sea and air transport.(ADR/RID, AND/ADNR, IMDG/GGVSee, ICAO/IATA)

No restrictive Department of Transportation requirements; not hazardous for shipping.

15. REGULATORY INFORMATION

Labeling in accordance with EC directives:

The product does NOT require a hazard warning label in accordance with EC Directives.

The preparations mentioned in section 2 were classified in compliance with the directive known as 199/45/EC and its adaptations in addition directive 2004/73/EC with the 29^o adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.

These preparations are not classed as hazardous to health by directive 1999/45/EC.

These products are not classed as flammable

Particular hazards associated with the preparation and safety recommendations:

S2	Keep out of reach of children
S23	Do not breathe gas/fumes/vapor/spray
S24	Avoid contact with skin
S62	If swallowed do not induce vomiting. Seek medical advice immediately and show this document

16. OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our present state of knowledge and on national and community regulations. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

The product must not be used for any purposes other than those specified under section 1. without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

Date of printing and last update: 01.08.2011

ANNEX 1

ITEM	NR.	COLOUR NAME	CHEMICAL NAME	CASS-NUMBER
PIGMENTS	101	Titanium White 1	PW 6 Titanium Dioxide PW 4 Zinc Oxide	13463-67-7 1314-13-2
	102	Titanium White 2	PW 6 Titanium Dioxide PW 4 Zinc Oxide	13463-67-7 1314-13-2
	103	Zinc White	PW 4 Zinc Oxide	1314-13-2
	109	Bright Yellow Lake	PY 3 Di-arylimide	6486-23-3
	110	Yellow lake	PY 3 Di-arylimide	6486-23-3
	112	Prussian Blue	PB27 Ferric-Ammonium Ferrocyanide	25869-005 14038-43-8
	113	Ultramarine Blue	PB29 Silicate of Sodium Aluminium Sulphur.	57455-37-5 101357-30-6
	114	Phthalocyanine Blue & Zinc White	PB 15.3 Chlorinated Copper PW 4 Zinc Oxide	147-14-8 1314-13-2
	115	Terre Verte	PG23 Natural Earth	
	116	Bright Green Lake	PY 73 Di-arylimide PG 7 Phthalocyanine	6358-31-2 1328-53-6
	117	Unbleached Titanium Dioxide	PW6.1 Titanium Dioxide	1317-80-2 7631-86-9
	118	Yellow Ochre Deep	PY42 Synthetic Iron Oxide	20344-49-4
	119	Yellow Ochre	PY42 Synthetic Iron Oxide	20344-49-4
	120	Raw Sienna	PBr6 Synthetic Iron Oxide	1309-37-1 51274-00-1 1317-61-9
	121	Raw Umber	PBr6 Synthetic Iron Oxide	001309-37-1 063231-67-4 007631-86-9 001313-13-9 014808-60-7

122	Venetian Red	PR101 Synthetic Iron Oxide	1309-37-1
123	Indian Red	PR101 Synthetic Iron Oxide	1309-37-1
124	Red Umber	PBr6 Synthetic Iron Oxide	001309-37-1 063231-67-4 007631-86-9 001313-13-9 014808-60-7
125	Burnt Sienna	PBr7 Natural Earth- Iron Oxide	1309-337-1
126	Burnt Umber	PBr6 Synthetic Iron Oxide	001309-37-1 063231-67-4 007631-86-9 001313-13-9 014808-60-7
127	Paynes Grey	PBk9 Amorphous Carbon PB29 Silicate of Sodium Aluminium Sulphur	8021-99-6 57455-37-5 101357-30-6
128	Lamp Black	PBk6 Carbon	1333-86-4
129	Ivory Black	PBk9 Amorphous Carbon	8021-99-6
202	Yellow Lake Deep	PY 1.1 Di-arylimide	12240-03-08
203	Indian Yellow	PY 83 Di-arylimide	5567-15-7
204	Indian Yellow Red Shade	PY 83 Di-arylimide & PR 101 Iron Oxide	5567-15-7
205	Scarlet Lake	PR 170 Naphthol Azo	2786-76-7
207	Brilliant Pink	PR 209 & PW4&6 Quinacridone & Zinc & Titanium Whites,	38720-66-0 61847-48-1 1314-13-2 13463-67-7
208	Ultramarine Violet	PV 15 Silicate of Sodium, Aluminium and Sulphur.	12769-96-9
209	Phthalocyanine Blue Lake	PB 15.3 Chlorinated Copper	147-14-8
210	Phthalocyanine Turquoise	PB 15.3 & PG 7 Chlorinated Copper & PW 6&4 Titanium Dioxide & Zinc Oxide	147-14-8 13463-67-7 1328-53-6
211	Kings Blue Light	PB 29 Silicate of Sodium, Aluminium and Sulphur & PW 6&4 Titanium Dioxide & Zinc Oxide	1314-13-2 1314-13-2 57455-37-5 13463-67-7

212	Kings Blue Deep	PB 29 Silicate of Sodium, Aluminium and Sulphur & PW 6&4 Titanium Dioxide & Zinc Oxide	101357-30-6 1314-13-2 57455-37-5 13463-67-7 101357-30-6
213	Phthalocyanine Green Lake	PG 7 Chlorinated Copper	1328-53-6
214	Phthalocyanine Green Yellow Shade	PG 36 Brominated Chlorinated Copper	68512-13-0
215	Permanent Green Light	PG 36 Brominated Chlorinated Copper & PW 6&4 Titanium Dioxide & Zinc Oxide & PY 3 Di-arylamide,	13463-67-7 6486-23-3 68512-13-0 1314-13-2
216	Emerald Green	PG 7 Chlorinated Copper & PW 6&4 Titanium Dioxide & Zinc Oxide & PY 3 Di-arylamide	13463-67-7 1328-53-6 1314-13-2 6486-23-3
217	Permanent Sap Green	PG 7 Chlorinated Copper & PBr 6 Iron Oxide	1328-53-6 6358-31-2
218	Naples Yellow	PBr24 Titanium Antimony Chromium Oxide	68186-90-3
219	Transparent Oxide Yellow	PY42 Sythetic Iron Oxide	51274-00-1
220	Transparent Oxide Red	PR101 Sythetic Iron Oxide	1309-37-1
222	Permanent Orange	PO 73 Pyrrol	8001-26-1
301	Napthol Red	PR 188 Napthol Azo	61847-48-1
302	Alizarin Crimson	PR 83 Dihydroxyanthraquinone	72-48-0
303	Magenta	PR 122 Quinacridone	980-26-7
304	Manganese Violet	PV 16 Manganese	10101-66-3
305	OxideChromium	Ammonium Pyrophosphate	1308-38-9
401	Cadmium Yellow Lemon	Pg 17 Oxides of Chromium	8048-07-5
402	Cadmium Yellow	PY 35 Cadmium Sulphide	8048-07-5

	403	Cadmium Golden Yellow	PY 35 Cadmium Sulphide	12656-57-4
	404	Cadmium Yellow Deep	PY 35 Cadmium Sulphide	12656-57-4
	406	Crimson Lake	PR 149 Perylene	4948-15-6
	501	Aureolin	PY 40 Cobalt Potassium Nitrate	8001-26-1
	502	Cadmium Orange	PO 20 Cadmium Sulphoselenide	12656-57-4
	503	Cadmium Red Light	PR108 Cadmium Sulphoselenide	58339-34-7
	504	Cadmium Red	PR108 Cadmium Sulphoselenide	58339-34-7
	505	Cadmium Red Deep	PR108 Cadmium Sulphoselenide	1345-16-0
	506	Cobalt Blue	PB 28 Oxides of Cobalt & Aluminium	68187-11-1
	507	Cobalt Turquoise Deep	PB 28 Oxides of Cobalt & Aluminium	8011-87-8
	508	Cobalt Green Deep	PG 19 Oxides of Cobalt & Zinc PG 18 Chlorinated Oxide of Chromium	1303-86-2 12001-99-9
	511	Viridian		
	601	Cobalt Violet Light	PV 14 Cobalt Phosphate	13455-36-2
	602	Cobalt Violet Dark	PV 14 Cobalt Phosphate	13455-36-2
	603	Cerulean Blue	PB 35 Cobalt Stannate & Oxides of Tin	68187-11-1
	702	Lapis Lazuli	PB29 - Natural Lapis Lazuli	57455-37-5
OIL		(See tube)	Safflower Linseed Walnut	8001-23-8 8001-26-1 8024-09-7