

01597-all codes except:
-1112 -1115 -1193 -1242 -1245
-1252 -1255 -1492 -1495 -4063
-4783 -4793

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 Series 2: 202/203/204/205/206/207/208/209/210/211/ 212/ 213/214/215/216/217/218/219/220/221/222 Series 3: 301/302/303/304/305 Series 4: 401/402/403/404/405 Series 5: 501/502/503/504/505/506/507/508 Series 6: 601/602/603
PRODUCT USE/CLASS	Oil Paint for Artists
UN-number	UN 3086
MANUFACTURER	Michael Harding's Artists Oil Colours Units 2-5 88 - 92 Mile End Road London (Whitechapel) E1 4UN
TELEPHONE (information)	+44 774 869 1437 or +44 207 702 8338
PREPARER	Michael Harding
EMERGENCY TELEPHONE UK	+44 870 243 2241 (Poison Centre)

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/EEC.
 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.

No Hazardous ingredients.
 The product is not classed as flammable

FIRST AID MEASURES

After skin contact:	Normal use When in contact with the skin, clean with soap and water.	Chronic exposure (abnormal use) 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 respiratory 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.

4. FIRE-FIGHTING MEASURES

Fire precautions:	Keep cool
Suitable extinguishing media	ABC powder Carbon dioxide Foam Water mist Water
Extinguishing media that must NOT be used for safety reasons	
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 (SO2) Carbon dioxide (CO2) 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.

5. 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)

6. 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

7. 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

8. 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
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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 >300°C lower: not explosive
Auto-ignition temperature	>300°C
Boiling Point	Not relevant
Melting Point	Not relevant
Vapor Pressure/Density	Not relevant

9. STABILITY AND REACTIVITY

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

10. TOXICOLOGICAL INFORMATION

Sensitization evaluation: Non sensitizing

11. 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

12. DISPOSAL CONSIDERATIONS

Product EWC waste code: 080112 Colour and lacquer residues

Packaging: empty packaging can be recycled

13. TRANSPORT INFORMATION

The product does NOT constitute a hazardous substance in national/international road, rail, sea and air transport (ADR/RID, ADR/ADNR, IMDG/CGV/Sev, CAQ/ATA)

14. 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 29th 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

15. 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: 24.10.2007

ANNEX 1

ITEM	NR.	COLOR NAME	CHEMICAL NAME	CAS-NUMBER
PIGMENTS	101	Titanium White 1	PW 6 Titanium Dioxide	13463-67-7
	102	Titanium White 2	PW 4 Zinc Oxide PW 6 Titanium Dioxide	1314-13-2 13463-67-7
	103	Zinc White	PW 4 Zinc Oxide	1314-13-2
	109	Bright Yellow Lake	PY 3 Di-arylimide	1314-13-2
	110	Yellow lake	PY 3 Di-arylimide	1314-13-2
	112	Prussian Blue	PG27 Ferric-Ammonium Ferrocyanide	13408-63-4
	113	Ultramarine Blue	PG29 Silicate of Sodium Aluminium Sulphur.	84992-49-4 7429-90-5 7704-34-9
	114	Phthalocyanine Blue & Zinc White	PB 15.3 Chlorinated Copper PW 4 Zinc Oxide	7440-50-8 1314-13-2
	115	Terre Verte	PG23 Natural Earth	1314-13-2
	116	Bright Green Lake	PY 73 Di-arylimide	1314-13-2
	117	Unbleached Titanium Dioxide	PW6.1 Titanium Dioxide PY42 Synthetic Iron Oxide	81612-16-0 13463-67-7 1309-37-1
	118	Yellow Ochre Deep	PY42 Synthetic Iron Oxide	1309-37-1
	119	Yellow Ochre	PB7 Natural Earth	1309-37-1
	120	Raw Sierra	PB6 Synthetic Iron Oxide	1309-37-1
	121	Raw Umber	PR101 Synthetic Iron Oxide	1309-37-1
	122	Venetian Red	PR101 Synthetic Iron Oxide	1309-37-1
	123	Indian Red	PB6 Synthetic Iron Oxide	1332-37-2
	124	Red Umber	PR 6 Iron Oxide	1332-37-2
	125	Burnt Sierra	PB6 Synthetic Iron Oxide	1309-37-1
	126	Burnt Umber	PB9 Amorphous Carbon	12595-82-3
	127	Paynes Grey	PB29 Silicate of Sodium Aluminium Sulphur PY42 Iron Oxide	84991-49-4 7429-90-5 7704-34-9 1332-37-2
	128	Lamp Black	PB6 Carbon	12595-82-3
	129	Ivory Black	PB9 Amorphous Carbon	12595-82-3
	202	Yellow Lake Deep	PY 1.1 Di-arylimide	1332-37-2
	203	Indian Yellow	PY 83 Di-arylimide	1314-13-2
	204	Indian Yellow Red	PY 83 Di-arylimide	1332-37-2
	205	Shade	PR 101 Iron Oxide	842-07-9
	207	Scarlet Lake	PR 170 Naphtho Azo	87397-48-6
	208	Brilliant Pink	PR 209 & PW 4 & 6 Quinacridone & Zinc	1314-13-2 13463-67-7
	209	Ultramarine Violet	Titanium Whites	13463-67-7
	210	Phthalocyanine Blue	PV 15 Silicate of Sodium, Aluminium and Sulphur.	84992-49-4 7704-34-9
	211	Kings Blue Light	PB 15.3 Chlorinated Copper PB 15.3 Chlorinated Copper PW 6.4 Titanium Dioxide Zinc Oxide PB 29 Silicate of Sodium, Aluminium and Sulphur & PW 6.4 Titanium Dioxide & Zinc Oxide	7440-50-8 13463-67-7 1314-13-2 84992-49-4 7704-34-9 13463-67-7

Item Numbers: 01597-1000, 01597-1012, 01597-1013, 01597-1022, 01597-1023, 01597-1032, 01597-1033, 01597-1033, 01597-1723, 01597-2022, 01597-2023, 01597-2252, 01597-2253, 01597-2563, 01597-3043, 01597-3063, 01597-3093, 01597-3123, 01597-3133, 01597-3203, 01597-3253, 01597-3333, 01597-3413, 01597-3603, 01597-3713, 01597-3733, 01597-3813, 01597-4043, 01597-4073, 01597-4123, 01597-4143, 01597-4163, 01597-4183, 01597-4203, 01597-4273, 01597-4293, 01597-4333, 01597-4533, 01597-4723, 01597-4913, 01597-4923, 01597-4933, 01597-4943, 01597-5163, 01597-5183, 01597-5193, 01597-5223, 01597-5233, 01597-5253, 01597-5903, 01597-5933, 01597-5953, 01597-5963, 01597-6583, 01597-6593, 01597-6623, 01597-6733, 01597-7053, 01597-7133, 01597-7253, 01597-7313, 01597-7373, 01597-7393, 01597-7483, 01597-7573, 01597-7663, 01597-7863, 01597-8043, 01597-8053, 01597-8063, 01597-8073, 01597-0069

	212	Kings Blue Deep	PB 29 Silicate of Sodium, Aluminium and Sulphur & PW 684 Titanium Dioxide & Zinc Oxide	7429-90-5 7704-34-9 1314-13-2 7440-50-8
	213	Phthalocyanine Green Lake	PG 7 Chlorinated Copper	7440-50-8
	214	Phthalocyanine Green Yellow Shade	PG 36 Brominated Chlorinated Copper	
	215	Permanent Green Light	PG 36 Brominated Chlorinated Copper & PW 684 Titanium Dioxide & Zinc Oxide & PY 3 Di-arylamide	13463-67-7
	216	Emerald Green	PG 7 Chlorinated Copper & PW 684 Titanium Dioxide & Zinc Oxide & PY 3 Di-arylamide	13463-67-7 1314-13-2
	217	Permanent Sap Green	PG 7 Chlorinated Copper	1332-37-2
	218	Naples Yellow	Pbr 6 Iron Oxide	7440-36-0
	219	Transparent Oxide Yellow	Pbr24 Titanium Antimony Chromium Oxide	1333-82-0
	220	Transparent Oxide Red	PY42 Synthetic Iron Oxide	1309-37-1
	221	Crimson Lake	PR101 Synthetic Iron Oxide	1309-37-1
	222	Permanent Orange	PR 149 Perylene	77392-71-3
	301	Naphthol Red	PO 73 Pyrrol	45361-50-0
	302	Alizarin Crimson	PR 188 Naphthol Azo	842-07-9
	303	Magenta	PR 83 Dihydroxyanthraquinone	65271-80-9
	304	Manganese Violet	PR 122 Quinacridone	87397-48-6
	305	Oxide of Chromium	PV 16 Manganese Ammonium Pyrophosphate	14798-03-9
	401	Cadmium Yellow Lemon	PG 17 Oxides of Chromium	77392-71-3
	402	Cadmium Yellow	PY 35 Cadmium Sulphide	1306-23-6
	403	Cadmium Golden Yellow	PY 35 Cadmium Sulphide	1306-23-6
	404	Cadmium Yellow Deep	PY 35 Cadmium Sulphide	1306-23-6
	405	Viridian	PG 18 Chlorinated Oxide of Chromium	196696-68-1
	501	Aureolin	PY 40 Cobalt	7440-48-4
	502	Cadmium Orange	Potassium Nitrate	96193-83-8
	503	Cadmium Red Light	PO 20 Cadmium Sulphoselenide	1345-10-4
	504	Cadmium Red	PR108 Cadmium Sulphoselenide	1345-10-4
	505	Cadmium Red Deep	PR108 Cadmium Sulphoselenide	1345-10-4
	506	Cobalt Blue	PR 28 Oxides of Cobalt & Aluminium	1308-06-1
	507	Cobalt Turquoise Deep	PB 28 Oxides of Cobalt & Aluminium	7429-90-5
	508	Cobalt Green Deep	PG 19 Oxides of Cobalt	1308-06-1
	601	Cobalt Violet Light	Zinc	1314-13-2
	602	Cobalt Violet Dark	PV 14 Cobalt Phosphate	137525-12-3
	603	Cerulean Blue	PB 35 Cobalt Stannate & Oxides of Tin	137525-12-3 18282-10-5
OIL		[See tube]	Safflower Unseed Walnut	8801-23-8 90028-77-6 8024-09-7