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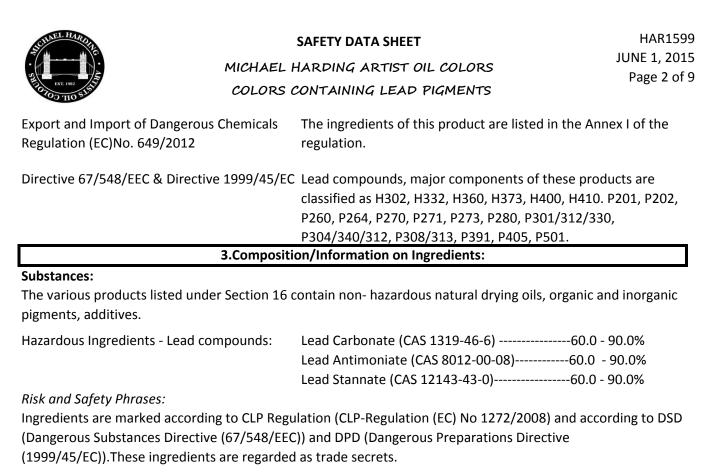
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# MICHAEL HARDING ARTIST OIL COLORS

COLORS CONTAINING LEAD PIGMENTS

1. Identification of the Preparation and of The Company		
	MICHAEL HARDING ARTIST OIL COLORS -COLORS CONTAINING	
Product Name and/or code:	LEAD PIGMENTS	
Effective Date:	1-Jun-15	
Manufacturer:	Michael Harding Art Materials, Ltd.	
	36 Springdale Industrial Estate	
	Cwmbran, Gwent NP44 -5BD, Wales	
Information Contact:	North America: 978-549-4029;	
	UK/Europe: 44 (0) 1633 - 484-700	
Emergency Contact:	Contact your local Poison Control Center	
Product Use:	ART MATERIAL - Consumer Product	
2.	Hazards Identification	
Information pertaining to particular dangers	This product has been classified as dangerous according to	
for man and environment.	OSHA Hazard Communication Standard (29 CFR 1910.1200)	
	Emergency Overview	
-	er of cumulative effects. Cancer Hazard. May cause birth defects	
and damage t	o blood, kidney, nervous system.	
Label Elements	Conforms to ASTM D-4236	
Pictograms	$\wedge \wedge \wedge$	
	For Lead compounds GHS07, GHS09, GHS08	
Signal Word	WARNING!	
Hazard Statement	Danger of cumulative effects. Cancer Hazard. May cause birth	
hazara Statement	defects and damage to blood, kidney, nervous system.	
	dereets und dumage to blood, klancy, hervous system.	
Precaution Statement	Do not eat. Avoid contact. Avoid making dust. Do not sand.	
	Wash after use.	
Children's Statement	KEEP OUT OF REACH OF CHILDREN.	
	sification of the Product:	
<u></u>	Health 3 - Warning. Corrosive or toxic. Avoid skin contact or	
NFPA	inhalation.	
	Flammability 1- Combustible if heated.	
	Reactivity 0 - Stable	
HMIS	Health 3 - Serious	
	Flammability 1 - Slight Hazard	
	Physical Hazard 0 - Minimal Hazard	
Regulation (EC) No. 1272/2008	Physical Hazard 0 - Minimal Hazard Lead compounds are classified in Annex VI of the Classification	



4. First Aid Measures		
Inhalation	Supply fresh air. If required, provide artificial respiration. Consult with a doctor, physician or qualified health professional if symptoms persist. In case of unconsciousness place patient securely in side position for transportation (if needed).	
Skin Contact	Remove any contaminated clothing. Wash affected area immediately with water and soap and rinse thoroughly.	
Eye Contact	Flush area with water, lifting the upper and lower lids until no evidence of product remains. Get medical attention. Do not wear contact lenses while handling.	
Ingestion	Drink water or milk to dilute. Do not induce vomiting. Contact a physician.	
Most important symptoms and effects, both acute and delayed	Typical clinical manifestations of lead poisoning include weakness, irritability, asthenia, nausea, abdominal pain with constipation, and anemia.	
Indication of any immediate medical attention and special treatments needed	Symptoms of poisoning may occur after several hours; therefore medical observation for at least 48 hours after the accident is recommended. In case of ingestion only if ordered by a doctor, physician or qualified health professional, induced vomiting or application of laxatives may be appropriate; treat as for lead poisoning. Regular blood monitoring for lead is needed to confirm exposure controls are adequate.	



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5. Firefighting Measures		
Extinguishing Media	Water, foam, carbon dioxide or dry chemical equipment.	
Fire/Explosion Hazards	This product is not known to present any fire hazard.	
Flashpoint/Flammability	This product is not known to be flammable but as a precaution keep product in cool place. It can be combustible if heated.	

Special hazards arising from the substance or May give off toxic fumes in case of fire, including lead fumes. mixture

6. Accidental Release Measures					
Environmental precautions			No p care.		eleased to the environment without due
Methods and Materia	ls for Containme	nt and (	Cont	ain spill. Recover	as much as possible with sand, soil or
Cleaning up		9	simil	ar product. Place i	nto closed container and store in a safe sal. Wash the spill area with soap and
		١	wate	er.	
		7. H	and	ling and Storage	
personal thorough		onal protection, we oughly after handli king or using toilet	onditions. Avoid eye contact. For e recommend that employees wash ing product. Always wash before eating, facilities. Keep container closed when		
Storage			•	o the sample in a co and heating source	ool dry ventilated area. Keep away from s.
	<b>8.</b> E	(posure (	Cont	rols/Personal Prot	tection
Personal Protective EquipmentWear safety goggles and protective gloves to avoid du contact.Exposure Limits0.05 mg/m3 (USA. ACGIH Threshold Limit Values (TLV)					
Component	CAS-No.	Value		Control	Basis
Lead(II) carbonate	598-63-0	TWA		0.15 mg/m3	Europe. Chemical Agents Directive - Annex I: Binding occupational exposure limit values
	Remarks	Binding			

**Biological occupational limits** 



# MICHAEL HARDING ARTIST OIL COLORS COLORS CONTAINING LEAD PIGMENTS

Component	CAS-No.	Parameters	Value	Biologica I	Basis
Lead(II) carbonate	598-63-0	Lead	0.7 mg/l	Blood	Chemical Agents Directive - Annex II: Binding biological limit values
	Remarks	(PbB) using a results., Med concentratio as a time-we lead level gre individual wo and medical article 12, pa	bsorptions lical surveill on of lead in ighted aver eater than 4 orkers. Prac surveillance ragraph 2. dicators (e.g	pectrometry or a m ance is carried out air is greater than ( age over 40 hours p 0 µg Pb/100 ml blo tical guidelines for	0,075 mg/m3, calculated ber week, or - a blood- od is measured in biological monitoring d in accordance with mmendations of
Respiratory and Venti	lation	vapor manuf	exceed app acturer's us	licable PEL/TLV limit e limitations and O	tor if exposure to mist or ts. Use in accordance with SHA STANDARD 1910-34. ent routine inhalation.
Skin Protection		remov avoid gloves labora The se	val techniqu skin contact after use in tory practic lected prote Directive 89	with this product. I accordance with a es. Wash and dry ha ective gloves have t	g glove's outer surface) to Dispose of contaminated oplicable laws and good
		Minim min Mater Splash Minim min	ial tested: D protection um layer th	ermatril <sup>®</sup> (KCL 740 Material: Nitrile ruk ickness: 0.11 mm B	reak through time: 480 / Aldrich Z677272, Size M) ober reak through time: 480 / Aldrich Z677272, Size M)



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Data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

## Eye Protection

Oral

Safety glasses conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

9. P	hysical and Chemical Properties
Appearance	Viscous colored oil paints
Physical State	Solid - Paste
Color	See product list in Section 16
Odor	Slightly aromatic.
Boiling Point	Greater than 100°C/ 212°F
Freezing Point	Not applicable
State (pH)	8.5 - 9.2
Specific Gravity	1.0 - 2.0
Viscosity	Not determined (Viscous material)
Flashpoint	Greater than 230°C/ 446°F
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Solubility in water	Not Miscible
	10. Stability and Reactivity
Reactivity:	Not expected to be reactive.
Chemical Stability	Stable
Conditions to Avoid	Keep away from heat, sparks and flame.
Incompatible materials	Combustible material (eg. Cotton)
Hazardous Decomposition Products	May give off toxic fumes in case of fire, including lead fumes.
	11. Toxicological Information
Health Effects	Studies have not been performed on this particular mixture.
	The information below is based on data on the individual

The information below is based on data on the individual ingredients. Low Acute Toxicity, but High Chronic hazard, not otherwise quantifiable.



Inhalation

Dermal Eye Effects Toxicokinetic assessment:

#### SAFETY DATA SHEET

# MICHAEL HARDING ARTIST OIL COLORS COLORS CONTAINING LEAD PIGMENTS

Overexposure my cause symptoms of chronic lung disease and lead poisoning. This product is not a primary skin irritant. May cause physical irritation and inflammation. Inorganic lead compounds are slowly absorbed by ingestion and inhalation and poorly absorbed through the skin. If absorbed, lead will accumulate in the body with low rates of excretion, leading to long-term build up. Part of risk management is to take blood samples from workers for analysis to ensure that exposure levels are below acceptable limits.

12. Ecological Information		
Aquatic toxicity	No information available.	
Persistence and degradability	No information available.	
Bio accumulative potential	Inorganic lead is considered to be bioaccumulating in the environment, and may accumulate in aquatic and terrestrial plants and animals.	
Mobility in soil	No information available. Details for elimination: Inorganic, water soluble product. Can be separated in waste water treatment plants by filtration and/or sedimentation. Highly alkaline or acidic liquids may dissolve Pb.	
Additional ecological information	For total elimination from aqueous media, chemical flocculation is required. Due to Pb. Any discharge into environment has to be avoided.	

#### **13.** Disposal Considerations

Dispose of all waste material in accordance with all applicable federal, state and local regulations for the disposal of hazardous waste. Must be disposed as hazardous chemical waste. Do not allow product to reach sewage system.

European waste catalogue:

06 03 13\* solid salts and solutions containing heavy metals,
06 04 05\* wastes containing other metals or
06 03 15\* metal oxides containing heavy metals.

## 14. Transport Information

The following transportation categories do not apply to this mixture sold as a consumer use product (non-		
bulk).		
DOT Non-Bulk		
Shipping Name	LEAD COMPOUNDS, SOLUBLE, N.O.S. (Lead Carbonate)	
Technical Shipping Name	LEAD COMPOUNDS, SOLUBLE, N.O.S.	
Hazard Class	6.1	

BULLEL HARDE	SAFETY DATA SHEET MICHAEL HARDING ARTIST OIL COLORS COLORS CONTAINING LEAD PIGMENTS
UN Number	2291
Packing Group	iii
IMDG	
Shipping Name	LEAD COMPOUNDS, SOLUBLE, N.O.S.
Technical Shipping Name	LEAD COMPOUNDS, SOLUBLE, N.O.S.
Hazard Class	6.1
UN Number	2291
Packing Group	iii
EmS Number	Not applicable
Marine Pollutant	EHS/Marine Pollutant Mark required
ICAO/IATA	
Shipping Name	LEAD COMPOUNDS, SOLUBLE, N.O.S.
Technical Shipping Name	LEAD COMPOUNDS, SOLUBLE, N.O.S.
Hazard Class	6.1
UN Number	2291
Packing Group	iii
Michael Harding Art Materials	s Ltd. are IATA certified through the UK CAA.

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This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the materials.

### **15. Regulatory Information**

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

SARA	Not applicable
Section 355 (extremely hazardous substances) Section 313 (Specific toxic chemical listing)	Not applicable Not applicable
TSCA (Toxic Substance Control Act) The Safe Drinking Water and Toxic Enforcement Act of 1986 - California Proposition 65	All ingredients are listed. As of June 1, 2015 this product contains lead and lead compounds known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statue.
Chemicals known to cause cancer	Lead and lead compounds
Chemicals known to cause reproductive toxicity for females	Lead and lead compounds
Chemicals known to cause reproductive toxicity for males	Lead and lead compounds
Chemicals known to cause developmental Carcinogenicity categories	Lead and lead compounds
EPA (Environmental Protection Agency)	Possible human carcinogen



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TLV (Threshold Limit Value established by ACGIH)

YearPossible human carcinogenMAK (German Maximum WorkplaceNo information available.Concentration)NOISH-Ca (National Institute for OccupationalNOISH-Ca (National Institute for OccupationalPossible human carcinogenSafety & Health)OSHA-Ca (Occupational Safety & Health

Administration)

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# 16. Other Information

Product Number and Color Name	Pigment Identification
225 Foundation White	#308 and Titanium White
307 Cremnitz White no. 1 (Walnut Oil)	PW 1 Lead Carbonate
308 Cremnitz White no. 2 (Linseed Oil)	PW 1 Lead Carbonate
512 Lead Tin Yellow Light	Lead Stannate Type 1
514 Lead Tin Yellow Lemon	Lead Stannate Type 1
605 Genuine Naples Yellow Light	PY 41 Lead Antimoniate
606 Genuine Naples Yellow Dark	PY 41 Lead Antimoniate
607 Stack Lead White	PW 1 Lead Carbonate

Abbreviations Legend:

H Statements

# P Statements

H302 - Harmful if swallowed.	<b>P201</b> – Obtain special instructions before use.
H332 - Harmful if inhaled.	<b>P202</b> – Do not handle until all safety precautions have been read and understood.
H360 - May damage fertility or the unborn child.	<b>P260</b> – Do not breathe dust/fume/gas/mist/vapors/spray.
H373 - May cause damage to organs through prolonged or repeated exposure.	<b>P264</b> – Wash thoroughly after handling.
H410 - Very toxic to aquatic life with long lasting effects.	<b>P270</b> – Do no eat, drink or smoke when using this product.
	P271 – Use only outdoors or in a well-ventilated area.
	P273 – Avoid release to the environment
	<b>P280</b> – Wear protective gloves/protective clothing/eye protection/face protection.

BALLET HARDING	SAFETY DATA SHEET MICHAEL HARDING ARTIST OIL COLORS COLORS CONTAINING LEAD PIGMENTS	HAR1599 JUNE 1, 2015 Page 9 of 9	
	<b>P301</b> + <b>P312</b> – IF SWALLOWED: Call a POISON CEN doctor/physician if you feel unwell.	<b>P301</b> + <b>P312</b> – IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.	
	<b>P304</b> + <b>P340</b> – IF INHALED: Remove victim to fres at rest in a position comfortable for breathing.	<b>P304</b> + <b>P340</b> – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
	<ul> <li>P308 + P313 – IF exposed or concerned: Get med advice/attention.</li> <li>P391 – Collect spillage.</li> <li>P405 – Store locked up.</li> </ul>	ical	
	<b>P501</b> – Dispose of contents/container to an approved waste disposal plant.		
Supersedes MSDS Reason for Issue:	11-Oct-13 GHS Format		
Prepared by:	Rudolph J. Jaeger, Ph.D., DABT, ERT (UK) Chief Toxicologist and President ENVIRONMENTAL MEDICINE, INC. 263 CENTER AVENUE WESTWOOD, NJ 07675		
	jaegerr@envmed.com 201-666-7929 x13		

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