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SAFETY DATA SHEET  
HAR - Handmade Artist Oil Colours

1. Identification of the Preparation and of The Company

Effective Date: October 11th, 2013  
 Manufacturer: Michael Harding Artist Oil Colours  
 36 Springdale Industrial Estate  
 Cwmbran, Gwent NP44 UK

Emergency Contact: North America: 978 549 4029  
 UK/ Europe: 44 (0) 1633 484 700

Product Use: Arts & Crafts Materials  
 Product Names  
 and/or Code: Handmade Artist Oil Colors

Colors:

Item No.	Product
1	Lead Tin Yellow Light
2	Red Lead
3	Stack Lead White
4	Cremnitz in Walnut Oil
5	Cremnitz in Linseed Oil

2. Hazards Identification

*Classification of the substance or mixture:*

Lead compounds are classified in Annex VI of the Classification Labeling and Packaging Regulation EC (no) 1272/2008.

*Classification in Accordance with the Dangerous Substances Directive 67/548/ECC*

Xn Harmful; R20/22: Harmful by inhalation and if swallowed.

R33: Danger of cumulative effects.

Repr.Cat. 3; R62: Possible risk of impaired fertility.

Repr.Cat. 1; R61: May cause harm to the unborn child.

N Dangerous for the environment; R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

*Classification in accordance with the Classification Labeling and Packaging Regulation EC (no) 1272/2008*

Acute Tox. 4 (oral); H302: Harmful if swallowed.

Acute Tox. 4 (inhalation); H332: Harmful if inhaled.

Repr. 1A: H360Df; May damage the unborn child. Suspected of damaging fertility.

STOT Rep. Exp. 2; H373: May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 1; H410: Very toxic to aquatic life with long lasting effects.

Aquatic Acute 1; H400: Very toxic to aquatic life.

*Label Elements*

*Labeling in accordance with the Classification Labeling and Packaging Regulation EC (no) 1272/2008*

**Danger**

**H410** Very toxic to aquatic life with long lasting effects.

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- H360FD** May damage fertility. May damage the unborn child.  
**H332** Harmful if inhaled.  
**H302** Harmful if swallowed.  
**H372** Causes damage to organs through prolonged or repeated exposure.  
**H351** Suspected of causing cancer.

***P Statements***

- P263** Avoid contact during pregnancy/while nursing.  
**P273** Avoid release to the environment.  
**P281** Use personal protective equipment as required.  
**P308,** If exposed or concerned: Get medical advice/attention.  
**P313**  
**P405** Store locked up.  
**P501** Dispose of contents/containers to the officially prescribed waste facility out.

**4. First Aid Measures**

- 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.
- 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.
- Ingestion:** Rinse mouth with water. Call for a doctor, physician or qualified health professional immediately. Show this safety data sheet.

**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.

**5. Firefighting Measures**

**Advice for firefighters**

Use respiratory protective equipment. Avoid water in straight hose stream; force may scatter and spread fire. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water contamination control.

**Extinguishing media**

The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CO<sub>2</sub>, powder or water spray. Fight larger fire with alcohol resistant foam.

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3**Special hazards arising from the substance or mixture****May give off toxic fumes in case of fire, including lead fumes.****6. Accidental Release Measures****Methods and materials for containment and clearing up****Arrange for recovery or disposal in suitable containers. Dispose contaminated material as hazardous waste. Ensure adequate ventilation.****See sections 8 and 13 for further advice.****7. Handling and Storage****Precautions for safe handling****Dust should be kept to a minimum, and regular cleaning and maintenance in place to prevent dust build up. Ensure good ventilation/extraction at the workplace. Open and handle with care. Keep respiratory protective equipment available. The product is not flammable.****Conditions for safe storage, including any incompatibilities****Keep container tightly closed. Store in a cool, dry place, and away from food.****8. Exposure Controls/ Personal Protection****Organizational measures*****Personal Hygiene:*****Ensure workers follow simple hygiene rules (e.g. do not bite nails and keep them cut short, avoid touching or scratching face with dirty hands or gloves).****Ensure workers do not wipe away sweat with hands or arms; Ensure workers use disposable tissues rather than a handkerchief.****Ensure workers use disposable tissues rather than a handkerchief.****Prohibit drinking, eating and smoking in production areas, or access to eating and non production areas in working clothes.****Ensure workers wash hands, arms, faces and mouths (preferably shower) and change into clean clothing before entering eating areas.****For high exposure workplaces, separate rooms for cleaning hands, removal of clothes, showers and clean clothes may be necessary.****Ensure workers handle dirty working clothes with care.****Allow no personal belongings to be taken into production areas, or items that have been used in production areas to be taken home.****Ensure general shop cleanliness is maintained by frequent washing/vacuuming.****Clean every workplace at the end of every shift.*****Blood lead monitoring:*****Set in place a certified monitoring regime which covers all site activities.****Define a policy for submitting workers to regular blood lead monitoring, including increased frequency for workers undertaking high-risk jobs and workers with elevated blood lead levels.****Ensure all workers have blood test prior to working on site.****Set an "action level" that is typically 5µg/dL below the exposure limit deemed to be safe. If the action level is exceeded, appropriate measures are to be taken, to prevent further increases in blood lead.**

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If the safe threshold is exceeded, continue or begin ban on overtime, ensure strict hygiene procedures are followed, undertake detailed inspections to ensure recommended workplace procedures are followed, move employee to workplace where exposure is expected to be lower or remove from lead environment altogether, further increase blood lead sampling frequency, and continue frequent sampling until results are below the first action level.

**Personal Protection Equipment (PPE)****Respiratory protection:**

Suitable respiratory protective device recommended. In case of brief exposure or low pollution use

**Hand Protection:**

Protective gloves. Material of gloves: Neoprene or Leather.

**Eye Protection:**

Safety glasses

**Skin Protection:**

Wear protective work clothing. For workers in areas of significant exposure, provide sufficient working clothes to enable daily change into clean clothes. In such cases all work clothing should be cleaned by the employer on a daily basis and is not permitted to leave the work site.

**Environmental Protection**

*One or more of the following measures may if necessary be taken to reduce emissions to water:*

Chemical precipitation (used primarily to remove the metal ions); Sedimentation; Filtration (used as final clarification step); Electrolysis (for low metal concentration); Reverse osmosis (extensively used for the removal of dissolved metals); Ion exchange (final cleaning step in the removal of heavy metal from process wastewater).

*One or more of the following measures may if necessary be taken to reduce emissions in air:*

Electrostatic precipitators using wide electrode spacing; wet electrostatic precipitators; Cyclones, but as primary collector Fabric or bag fillers (high efficiency in controlling fine particulate- melting, achieve emission values Membrane filtration techniques can achieve); Ceramic and metal mesh filters (PM10 particles are removed); Wet scrubbers.

Lead compound removal from treatment works should be at least the minimum default 84% removal used in the CSR. Solid material collected from on-site treatment must be sent for metal recovery or treated as hazardous waste. Waste water treatment sludge must be recycled, incinerated and not used as agricultural fertilizer.

**9. Physical and Chemical Properties**

Appearance:	White or colored oil paints
pH:	8.5-9.2
Boiling Point:	>100°C/ 212F
Specific Gravity:	1.0-2.0
Vapor Density:	Heavier than air
Solubility in Water:	Miscible

**10. Stability and Reactivity**

**Reactivity:**

Orange Lead is not a reactive substance and no reactive hazards are expected.

**Chemical Stability:**

Expected to be stable under normal conditions of use.

**Possibility of Hazardous Reactions:**

No hazardous reactions expected under normal conditions of use.

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**Conditions to Avoid:**

Avoid excessive exposure to heat.

**Incompatible Materials:**

Strong oxidizing agents.

**Hazardous Decomposition Products:**

No decomposition if used as directed.

## 11. Toxicological Information

**Toxicokinetic assessment:**

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 acceptable.

## 12. Ecological Information

**Toxicity:**

Inorganic lead compounds are expected to be acutely toxic in the environment and also to present a long term hazard to aquatic organisms. Toxicity will depend on the level of free lead ion in solution, which in turn is affected by pH, water hardness, salinity, etc. Lead toxicity is expected to be greater in softer waters.

**Persistence and degradability:**

Biodegradation is not relevant for inorganic substances.

**Bioaccumulative potential:**

Inorganic lead is considered to be bioaccumulating in the environment, and may accumulate in aquatic and terrestrial plants and animals.

## 13. Disposal Considerations

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

UN Number	2291
UN Proper Shipping Name:	LEAD COMPOUNDS, SOLUBLE, N.O.S. (lead oxide)
Transport Hazard Class(es):	6.1
Packing Group:	III
Tunnel Restrictions:	E
Environmental Hazards:	EHS/Marine Pollutant Mark required
Special Precautions for User:	None

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not transported by sea in bulk.

## 15. Regulatory Information

California Proposition 65: These products contain chemicals known to the State of California to cause cancer, and birth defects or other reproductive harm. (Lead is known to cause cancer and reproductive harm at concentrations that trigger the warning requirements of California Proposition 65).

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

**RL 96/61/EC (IPPC-Regulation), EPER: Lead and its compounds**

The product is classified and marked according to regulations of the relevant European countries. This SDS is following the regulations given by RL1907/2006/EC. This product does not meet the restrictions for dangerous goods used for electronics etc. (RoHS). Pregnant women are not allowed to handle the product if there is any risk for exposure.

According to RL94/33/EC persons below 18 years old are not allowed to handle or use the product.

Statutory order on hazardous incidents: Appendix I no. 9a

German water risk classification (WGK) VwVws: WGK3

**Chemical Safety Assessment**

**A Chemical Safety Assessment has been carried out for this product.**

<b>16. Other information</b>
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**Reason for Issue:**

**New Product**

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**Important: While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by Michael Harding Art Materials, LLP hereunder are given with cost and Michael Harding Art Materials, LLP assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being accepted at your own risk.**