

SAFETY DATA SHEET.

1. Identification of Substance / Preparation & Company.

Product Name: *Ormoline Metallic Paint Medium.*
Supplier: C. Roberson & Co. Ltd.
1A Hercules Street,
London N7 6AT.
Telephone: 0171 - 272 - 0567

2. Composition / information on Ingredients.

Description: Cellulose Bronze Medium.
Composition: Synthetic nitro-cellulose resins in aliphatic and aromatic hydrocarbons.
Warning Symbols: HARMFUL, HIGHLY FLAMMABLE.

3. Hazards Identification.

The product is classified as "HARMFUL" under the Classifications, Packaging, and Labelling of Dangerous Substances Regulations 1984. Occupational exposure limits {OEL} have been established by the Health and Safety Commission for certain of the ingredients, and these should always be observed :-

<u>Substance</u>	<u>%WEIGHT LIMIT</u>	<u>OEL</u>	<u>OEL</u>	<u>NOTES</u>
	<u>IN PAINT</u>	<u>8 HR.TWA(*)</u>	<u>10MIN.TWA(X)</u>	
Butanol	3 - 10	50ppm	50ppm	+
Toluene	15 - 45	50ppm	150ppm	+
Xylene	15 - 30	100ppm	150ppm	+

(*) Long term exposure limit - 8 hour time weighted average

(X) Short term exposure limit - 10 minute time weighted average

(R) Recommended limit

(C) Control limit

(+) There is a risk of absorption through unbroken skin

- a) Over exposures are irritating too eyes and respiratory system. Excessive concentrations may produce effects on the central nervous system including drowsiness. In extreme cases loss of consciousness may result.
- b) Long term exposure to vapour concentrations in excess of OEL's may result in adverse health effects.
- c) Splashes entering the eye will cause discomfort and possible damage.
- d) Prolonged contact with the skin may have a de - fatting effect which may lead to skin irritation and in some cases dermatitis.

4. First Aid Measures.

Inhalation: Remove to fresh air, keep patient warm and at rest. If breathing is irregular or has stopped, administer artificial respiration. Give nothing by mouth.

Eye Contact: Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Skin Contact: Remove contaminated clothing, wash skin thoroughly with soap and water, or use a proprietary skin cleaner. Do not use solvents or thinners.

Ingestion: There is no hazard by this route in normal industrial activities. If accidentally swallowed, DO NOT INDUCE VOMITING, keep at rest and obtain medical attention.

5. Fire Fighting Measures.

- a) Suitable Extinguishers: Use foam or dry powder extinguishing agents, cool containers exposed to fire with water spray.
- b) Unsuitable Extinguishers: Do not use water jets on flames.
- c) Hazardous Decomposition: Fire will produce dense black smoke containing harmful products of combustion.
- d) Special Procedures: Use self approved self contained breathing apparatus.

6. Accidental Release Measures.

Contain and collect spillage with non-combustible materials, eg. sand or earth.
Do not allow to enter drains. Exclude sources of ignition, ventilate area.
Special Procedures - the accumulation of dry over spray, contaminated rags etc. may result in spontaneous combustion.

7. Handling and Storage.

- a) Handling: Avoid inhalation of vapour particulates and spray mist. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation. If this is not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn. (See section 8)
Avoid contact with skin and eyes. Wear appropriate protective clothing and eye protection to BS 2092.
- b) Storage: Store in accordance with the conditions of licence which is necessary under the Petroleum (consolidation) Act 1928. Store in tightly closed Labelled containers, in a cool dry, well ventilated area away from sources of ignition.

8. Exposure Controls / Personal Protection.

Personal Protection: The selection of respiratory protective equipment should be in accordance with BS 4275. Recommendations for the selection, use the Maintenance of Respiratory Protective Equipment, and the current Certificate of Approval issued annually by Health and Safety Executive.

9. Physical and Chemical Properties.

Appearance:	Clear liquid	Vapour Density:	2.5 - 3.7
Odour:	Aromatic odour	Vapour Pressure:	>1
Flash Point:	23 - 32 c	Evaporation rate:	13 - 27
Boiling Point:	114 - 144 c	Auto ignition Temperature:	340 c
Water Miscibility:	Partial	Threshold limit value :	25ppm
Flammability limits in air (% in Volume)	Lower 1.1 Upper 11.2		

10. Stability & Reactivity.

Stability:	Contains Volatile Solvent
Conditions to Avoid:	Sources of Ignition
Hazardous Decomposition Products:	Solvent Vapours
Materials to Avoid:	Oxidising Agents
Conditions to Avoid:	Heat

11. Toxicological Information.

Routes of Exposure: Inhalation, Ingestion, Skin Absorption.
Health Effects: Splashes entering the eye will cause discomfort and possible damage.
Chronic Effects: Over exposures are irritating to the respiratory system, excessive concentrations may produce effects on the central nervous system including drowsiness. In extreme cases loss of consciousness may result. Prolonged contact with the skin may have a de-fatting effect which may lead to skin irritation and in some cases dermatitis.

12. Ecological Information.

Do not allow to enter drains, contain any spillage with non-combustible materials. Waste materials must be treated as a Fire Hazard. Not expected to persist in the environment.

13. Disposal Considerations.

Waste materials must be treated as a Fire Hazard, do not discharge into drains or watercourses. Dispose of in accordance with Special Waste Regulations 1980.

14. Transport Information.

UN (SI) No.:	1263	Physical State:	Liquid
Road/Rail (ADR/RID):	Class 3	Density:	0.92 - 0.96
ADR Packing:	Group II	Water Miscibility:	Immiscible
(IMDG) Class. :	Class 3.2	Flash Point:	5 c
IMDG Packing :	Group II	Emergency Sch. No. :	EMS 3.05
Explosive Limits % in air:	Lower	Upper	
Toluene	1.2	7.0	
N. Butanol	1.4	11.2	
Xylene	1.1	7.0	

15. Regulatory Information.

Risk and safety: Highly Flammable, Harmful.
The Product is classified and labelled for supply in accordance with the chemicals (Hazards Information & Packaging) Regulations.
The information contained in this data sheet does not constitute the user's assessment of the work place risks as required by other health and safety legislation.

16. Other Information.

Roberson's *Ormoline Metallic Paint Medium* is used for mixing with Roberson Bronze Powders. Good housekeeping and the removal of waste material will minimise risk to health.

This information is based on our present state of knowledge and is intended to describe or products from the point of view of the safety requirements. It should not be construed as guaranteeing specific properties.

This safety data sheet was compiled using the current safety information supplied by the distributors of the component materials.

Revision Date : 06 / 03 / 95