



MATERIAL SAFETY DATA SHEET (LINOL)

1. PRODUCT AND MANUFACTURER IDENTIFICATION:

Product Brand Names : MAS LINOL

Product Class : Etherochromatic water – borne paint.

Intended Uses : Architectural and Industrial decorative painting.

Manufacturer : MAS Paints & Chemicals Industry.

Emergency Telephone No : 06 - 5311777

C.A.S. Number : Not applicable

Hazard Rating, NFPA Codes : Product DO NOT enter any OSHA –US or EEC dangerous / hazard classification. Health=1, Flammability=0-, Reactivity=0

2. PRODUCT COMPOSITION / INGREDIENTS:

Data on composition of MAS Paints & Chemicals Ind., products are confidential proprietary information and are provided solely to aid in safe handling of these materials. Use or disclosure for any other purpose is expressly forbidden.

Chemical Identification : Suspension of pigmented coacerves in a water – based emulsion of styrene – acrylic resin.

Basis Composition : These data are typical for the products but not a specification or a full composition.

	Ingredients	CAS #	Weight%
Solvent	Water	-	86
Binder	Butylacrylate/ styrene copolymer 25767-47-9		4
Pigment (White)	Titanium Dioxide	13463-67-7	2
Polymer	Polyvinylacetate 9003-	20-7 3	
Coalescing agent (+add)	Propylene glycol (+add)	57-55-6	1 (+4)

Hazardous Ingredients Reference to EEC Directive 88/379

Ingredients	CAS #	EEC # CEE #	Weight %	R-phrases
Propylene glycol	57-22-6		0.50-0.90	
Ethanol	64-17-5		0.06-0.12	
Dibutyl phthalate	84-74-2		0.05-0.06	
Formaldehyde	50-00-0	605-001-00-5	0.045-	
Isothiazolone	55965-84-9		0.0025- 0.0035	

3. HAZARD IDENTIFICATION:

Fire and Explosion Hazards : Fire rating (ASTM E-84):0 flame spread, 0 smoke density.

Fire reaction class (UNI 84577/83,9174/87): 1, not participating into fire propagation.

Health Hazards : Threshold limit values: see section 8.

Primary entry routes; eyes, ingestion. Overexposure: not known to produce chronic toxicity; prolonged vapour. Inhalation may irritate nose and throat

4. EMERGENCY AND FIRST AID MEASURES:

- General : For any doubt or if persistent symptoms seek medical advice. If injured person is unconscious give nothing by mouth, place in recovery position and seek medical advice.
- Inhalation : Provide fresh air.
- Eye Contact : Rinse copiously with clean water for several minutes, if necessary see physician.
- Skin Contact : Wash thoroughly with soap and water.
- Ingestion : If accidentally swallowed immediately obtain medical attention.

5. FIRE FIGHTING PROCEDURES:

Extinguishing Media : Being product water-borne it is NOT inflammable and fire extinguishing media have not been determined.

Precautions : Wear self – contained breathing apparatus to avoid inhalation of smoke or vapours that can be developed after paint substrate burning.

6. ACCIDENTAL RELEASE MEASURE:

Methods for Cleaning Up : Remove product with inert materials, collect and dispose in accordance with local regulations. Clean with water.

Environmental Precautions : Do not allow to enter natural water streams or drains.

7. HANDLING AND STORAGE:

Handling : Use good personal hygiene practice after product usage or contact. For personal protection media see section 8.

Storage : Storage in original tightly closed cans, temperature ranging between 5oC and 40oC, in a dry and airy ambient. Keep from freezing and prolonged direct sun irradiation.

8. EXPOSURE CONTROL / PERSONAL PROTECTION:

Exposure control (ACGIh, OSHA) : Vapors are primarily water.
Professional exposure limits : n.d.

Substance	TLV-TWA TLV-TWA Ppm	Mg/m3	STEL Ppm	STEL Mg/m3	Vap P Mm Hg
Propylene Glycol	50	10			0.1
Ethanol	1900				40
Dibutyl Phthalate					0.1

Formaldehyde
Isothiazolone

Personal protection equipment : Respiratory mask; not required during normal usage.
Protective gloves: Plastic or rubber gloves for prolonged product contact.
Eye protection: safety goggles when splashes can occur.
Protective clothing: nothing special..

PHYSICO – CHEMICAL DATA:

Physical State	Viscous liquid suspension, etherochromatic, light sweet odour.
Specific Gravity (water = 1.00)	1.05 – 1.07 (25oC)
Solids percent by weight	12 – 17%
Evaporation rate	Slower than ether.
Boiling range	> 100oC
Vapor density	Heavier then air.
V.O.V. (ASTM D3969)	< 40 g/L
Viscosity (Brookfield)	6000-16000 cps (25oC)
Ph range	6.2 – 7.5
Solubility in water	Partial

10. STABILITY AND REACTIVITY:

Stability	Stable under recommended conditions of storage and usage.
Hazardous polymerisation	No hazardous reaction is known.
Hazardous decomposition products	If involved in fire may release carbon monoxide and dioxide
Incompatibility	No hazardous reactions are expected.
Conditions to avoid	Do not mix with water reactive materials.

11. TOXICOLOGICAL INFORMATION:

Specific toxicity	No specific information is available.
Health effects	No permanent health effect is known.

12. ECOLOGICAL INFORMATIONS:

Biodegradability	Not readily biodegradable.
Ecotoxicity	No specific information is available.
Bioaccumulation	No specific information is available.

13. DISPOSAL CONSIDERATIONS:

Disposal warnings	Product and packaging wastes must be disposed in accordance with local regulations.
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14. TRANSPORT INFORMATIONS:

UN/ID (packaging group)	-
ADR/RID (by road / rail)	Class:- Label:-
IMDG (by sea)	Class:- Label:-
ICAO/IATA (by air)	Class:- Label:-

15. REGULATORY INFORMATION:

EEC 91/155 Classification	Product do not enter any class for dangerous / hazard labelling.
R-phrases, S-phrases	-

16. OTHER INFORMATION:

Information given in this document is accurate to our best present knowledge and does not exempt end –user from properly storing, handling and using the product and waste managing in accordance with local law-Manufacturer assumes no responsibility for loss or injury resulting from improper use of the product with reference to present MSDS and application manual. Data indicated herein are about safety only, they cannot be considered effective for quality assurance purposes.

n.d. = not determined, n.a – not applicable.