



MATERIAL SAFETY DATA SHEET

Manufacturer : NIPPON PAINT (S) CO., PTE LTD
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SECTION I – PRODUCT IDENTIFICATION

Product Name : Nippelux 1201 Tropical Anti-Fouling
 Product Class : Solvent-based Air-drying Rosin-based Anti-Fouling Paint
 Reference : MSDS196

SECTION II - CHEMICAL INGREDIENTS

<u>Components</u>	<u>Weight(%)</u>
Resin	
Rosin) 15.0 - 25.0
Alkyd)
Pigments	
Calcium Sulphate) 45.0 - 60.0
Ferrous Oxide)
Cuprous Oxide)
Additives	
Polyethylene Anti-settling Agent) 0.4 - 2.0
Silicon-free Surfactant)
Wetting & Dispersing Agent)
Solvents	
Aromatic Solvent) 15.0 - 25.0

SECTION III - HAZARD IDENTIFICATION

No halogens and heavy metals such as Selenium, Antimony, Arsenic, Cadmium, Chromium and Mercury are contained in this paint. However, it contains volatile and inflammable solvents, ensure adequate ventilation during use and avoid using near ignition sources.

SECTION IV - PHYSICAL AND CHEMICAL DATA

Appearance : Red
 Viscosity : 71 ± 2 KU at 25°C
 Specific Gravity (H₂O=1) : 1.58 ± 0.03 at 25°C
 Non-volatile : $72 \pm 2\%$ by weight
 Flash Point : Approx. 40°C
 Shelf Life : 18 months in sealed original packaging stored at room temperature (25 - 28°C)

SOLVENT-BASE PRODUCT

NO LEAD

Product Name : Nippelux 1201 Tropical Anti-Fouling

SECTION V - FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media	:	Foam / Dry Chemical / Carbon Dioxide
Special Fire Fighting Procedure	:	Cool closed containers with water spray; isolate from heat, electrical equipments, sparks and open flame; fire-fighters use protective apparatus.
Unusual Fire and Explosion Hazards	:	Closed containers may explode when exposed to extreme heat; avoid spreading burning liquid with water for cooling; isolate.

SECTION VI - HEALTH HAZARD DATA

Effects of Over Exposure:-

Inhalation	:	Respiratory irritation, headache and nausea
Eye Contact	:	Cause severe eye irritation and blurred vision
Skin Contact	:	May cause moderate skin irritation
Ingestion	:	Harmful if swallowed.
Delayed Effects	:	None currently known.

Emergency and First Aid Procedures:-

Inhalation	:	Remove to fresh air
Eye Contact	:	Flush eyes thoroughly with plenty of clean water for at least 15 minutes; obtain medical care.
Skin Contact	:	Remove promptly by wiping followed by washing with soap and water.
Ingestion	:	Get immediate medical help; do not induce vomiting.

SECTION VII - REACTIVITY DATA

Stability	:	Stable
Conditions to Avoid	:	Do not expose to heat or ignition sources.
Hazardous Decomposition Products	:	None.
Hazardous Polymerisation	:	Will not happen.
Incompatibility (Materials to Avoid)	:	None.

SECTION VIII - SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released Or Spilled:

Provide ample ventilation. Remove potential sources of ignition. Put on personal protective gears like respirator, goggle and gloves. Major and minor spills should be collected using the suitable absorbent for disposal. Prevent from entering sewers or watercourses.

Waste Disposal Method: Must be disposed in accordance with appropriate government regulation.

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NO LEAD

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SECTION IX - SPECIAL PROTECTION INFORMATION

- Ventilation : General / local exhaust ventilation is expected to be satisfactory.
- Respiratory Protection : NIOSH-approved respirator with organic vapour cartridges recommended.
- Protective Gloves : Solvent resistant type recommended.
- Eye Protection : Safety glasses / goggles with side shields recommended
- Other Protective Equipment : Eye bath; readily accessible.

SECTION X - SPECIAL PRECAUTION

- Handling and Storing : Keep container closed, have adequate ventilation, avoid sources of heat, sparks and flame.
- Other Precaution : Avoid contact with eyes, skin and prolong breathing of vapour.

SECTION XI - MISCELLANEOUS INFORMATION

- Note to Physician : The material is of very low acute toxicity. There is no specific antidote. Treatment of over-exposure should be directed at the control of symptoms and the clinical condition.
- Remark : The information contained herein is to the best of our knowledge and believe accurate. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or completeness. Since the conditions of handling, storage, use and disposal are beyond our control and may be beyond our knowledge, for this and other reasons, we make no guarantee of results and assume no liability for damages incurred by the use of this product. Please be reminded that all chemicals may present unknown health hazards and should be used with caution.