



SAFETY DATA SHEET

SDS Number: SDS-427

Version No: 01

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Product Name: **NIPPON POLYMERIC MEMBRANE UNDERCOAT**

Intended Use: Water-borne Emulsion Coating

Manufacturer: Nippon Paint (S) Co. Pte Ltd
No. 1 First Lok Yang Road
Jurong Singapore 629728

Telephone/Fax Numbers: (65) 6 265 5355 / (65) 6 264 1603

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	%	CAS NO	CHEMICAL NAME
Water	12-19	7732-18-5	Water
Inorganic Pigment	30-40	471-34-1, 13463-67-7	Calcium Carbonate, Titanium Dioxide
Synthetic Polymer(s)	45-55	25085-34-1	Styrene Acrylic Co-polymer
Additive	2-5	9003-03-6	Polyacrylateammonium Salt
	2-5	25265-77-4	2,2,4-Trimethyl-1,3-Pentamediol-Monoisobutyrate

3. HAZARDS IDENTIFICATION

Non-hazardous substance. May be harmful if swallowed and may cause skin and eye irritation.

4. FIRST-AID MEASURES

INHALATION

- Remove victim from area of exposure- avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

SKIN CONTACT

- If skin contact occurs, remove contaminated clothing and wash skin. If irritation occurs, seek medical advice,

EYE CONTACT

- If in eyes, wash out immediately with water. In all cases of eye contamination it is sensible precaution to seek medical advice.

INGESTION

- Rinse mouth with water. If swallow, give a glass of water to drink. If vomiting occurs, give further water. Seek medical assistance.

5. FIRE FIGHTING MEASURE

This product is not combustible and not considered to be a significant fire risk.

EXTINGUISHING MEDIA

- Water fog or fine water spray, foam, dry agent (carbon dioxide, dry chemical powder).

FIRE FIGHTING ADVICE

- Not combustible, however following evaporation of the water component of the material, the residual material can burn if ignited. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

PERSON RELATED PRECAUTIONARY MEASURES

- Ensure supply of fresh air in enclosed rooms.
- Use personal protective equipment, e.g. respirators, eye protection, gloves and safety shoes to prevent skin and eye contact.

ENVIRONMENTAL PROTECTION MEASURES

- Eliminate sources of ignition.
- Keep public away.
- Contain spilled liquid with sand or other non-combustible absorbent materials
- Wash area and prevent runoff into drains and sewerage system.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.

PROCEDURE FOR CLEANING

- Clean up all spills immediately.
- Absorb spill with absorbent and inert material, then place in container.
- Disposal in accordance to local regulations.

7. HANDLING AND STORAGE

HANDLING

- Keep out of reach of children.
- Handle containers with care. Open slowly in order to control possible pressure release.
- Do not pressurize containers.
- Do not ingest. Do not breathe in gas/fumes/vapour. Avoid eye contact and repeated or prolonged skin contact.
- For personal protection, see section 8.
- Use only in areas from which all naked lights and other sources of ignition have been excluded.
- Protect from frost and extremes of temperature.

STORAGE

- Keep containers closed when not in use- check regularly for leaks.
- Containers that are opened should be properly resealed and kept upright to prevent leakage.
- Store in cool, dry and well-ventilated place and out of direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

No value assigned for this specific material by the National Occupational Health and Safety Commission. No Exposure Standards assigned to other constituents. These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not measures of relative toxicity.

ENGINEERING CONTROL MEASURES

- Provide adequate ventilation
- If using indoors, keep windows and doors open during use.
- Keep containers closed when not in use.
- Ensure eyewash stations and safety showers are close to the workstation location.

PERSONAL PROTECTION MEASURES

- Respiratory Protection: Wear appropriate respirators when ventilation is inadequate and risk of inhalation exists.
- Hand Protection: Use of rubber type gloves is recommended.
- Eye Protection: Use of safety glasses or goggles with side shields is recommended.
- Skin / Body Protection: Wear overalls. Cotton or synthetic clothing is normally suitable.

Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	Liquid
Odour	:	Mild
Specific gravity (Water = 1)	:	1.30 ± 0.15 (25°C)
pH	:	7 – 9
Flash point	:	Not available
Boiling point	:	Not available
Melting point	:	Not available
Auto-ignition temperature	:	Not available
Explosive limits (in air)	:	Not available
Vapour density (101.3kPa / air=1)	:	Not available
Solubility in water (G/L)	:	Partly Miscible

10. STABILITY AND REACTIVITY

STABILITY

- The product is stable under recommended storage and handling conditions.
(See section 7)

CONDITIONS TO AVOID

- DO NOT expose to extreme heat, ignition sources or sparks.

HAZARDOUS DECOMPOSITION PRODUCTS

- When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke and oxides of nitrogen.

MATERIALS TO AVOID (INCOMPATIBILITY)

- Keep away from oxidising agents, strongly alkaline and strongly acidic materials in order to avoid exothermic reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or affects that may arise if the product is mishandled and over-exposure occurs are:

ACUTE EFFECT

- Inhalation: Where this material is used in a poorly ventilated area, at elevated temperatures or in confined spaces, vapour may cause irritation to mucous membranes of the respiratory tract, headache and nausea.

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Skin contact:	Contact with skin may result in irritation.
Eye contact:	May be an eye irritant.
Ingestion:	No adverse effects expected, however large amounts may cause nausea and vomiting.

CHRONIC EFFECT

No information available for the product.

The components in the proportions present are not considered to present a hazard under conditions of good occupational work practices.

12. ECOLOGICAL INFORMATION

For spills or waste, take care to avoid contaminating the environment.
The product should not be allowed to enter drains and watercourses.

13. DISPOSAL CONSIDERATIONS

The product should not be allowed to enter drains and watercourses.
Wastes and empty containers should be treated and disposed of in accordance with national and local regulations.

Empty containers and packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor.
For small quantities: Do not pour leftover paint down the drain. Unwanted paint should be brushed out on newspaper, allowed to dry and then disposed. Empty paint containers should be left open in a well-ventilated area to dry out before recycle, reuse or dispose. Usually suitable for disposal at approved land waste site.

To ensure compliance, consult local Waste Management Authority.

14. TRANSPORT INFORMATION

Transport to be in accordance with ADR/RID for road, IMDG for sea and IATA for Air.

LAND TRANSPORT

Not classified as Dangerous Goods by the criteria of the European Agreement concerning the international carriage of Dangerous Goods (ADR) by Road & Regulations concerning the international carriage of Dangerous goods (RID) by Rail.

SEA TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport of Sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by Air

15. REGULATORY INFORMATION

Classification according to EC Directives (91/155/EEC), Singapore Standard CP98:2003:

16. OTHER INFORMATION

To the best of our knowledge, the information contained herein is 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

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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.

Other reference:

www.osha.gov

www.mom.gov.sg