

SAFETY DATA SHEET

MSDS :NPLK-033 Version No: 002 Nippolac Polyurethane Varnish

Revision Date: 16-11-2019

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name : Nippolac Polyurethane Varnish

Uses : Air drying paint/lacquer product for interior use wooden

Supplier : Nippon Paint Lanka (Pvt) Ltd.,

Street Address : "Nippolac Towers", No. 69A, Buthgamuwa Road, Rajgiriya, Sri Lanka.

Telephone Number : +94 11-4356900 Facsimile : +94 11-4356909

E-mail Address : www.nipponpaint.com.lk

CONTACT POINT

Designation : Head Of Technical Support

Telephone Number : +94 77-2284058

2. HAZARDS IDENTIFICATION

GHS Classification:

Flammable Hazard Category 3

Health Hazard

Skin corrosion/irritationCategory 2Serious eye damage/irritationCategory 2Skin sensitizationCategory 1Germ cell mutagenicityCategory 1CarcinogenicityCategory 1

Specific target organ toxicity:

- Repeated exposure Category 1
Asphyxiation hazard Category 1

GHS Pictogram



Signal Word Danger

Hazard statements

H226: Flammable liquid and vapour

H304: May be fatal if swallowed and enters airways H315:

Causes skin irritation

H317: May cause an allergic skin reaction H319:

Causes serious eve irritation

H340: May cause genetic defects H350: May

cause cancer

H372: Causes damage to organs through prolonged or repeated exposure

Precautionary statements

P201: Obtain special instructions before use

P202: Do not handle until all safety precautions have been read and understood P210:

Keep away from heat/sparks/open flames/hot surfaces – No smoking P233: Keep

container tightly closed

P240: Ground/bond container and receiving equipment

P241: Use explosion-proof electrical/ventilating/light/equipment P242:

Use only non-sparking tools

P243: Take precautionary measures against static discharge P260:

Do not breathe dust/fume/gas/mist/ vapours/spray P261: Avoid

breathing dust/fume/gas/mist /vapours/spray P264: Wash hands

thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P272: Contaminated work clothing should not be allowed out of the workplace P280: Wear protective gloves/protective clothing/eye protection/face protection P281: Use personal

protective equipment as required

Response

P314: Get medical advice/attention if you feel unwell P321:

Specific treatment (see Section 4 of SDS) P331: Do NOT

induce vomiting

P362: Take off contaminated clothing and wash before reuse P363:

Wash contaminated clothing before reuse

P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician P302+352: IF ON

SKIN: Wash with soap and water

P308+313: IF exposed or concerned: Get medical advice/attention P332+313: If

skin irritation occurs; Get medical advice/attention P333+313; If skin irritation or a

rash occurs: Get medical advice/attention P337+313: If eye irritation persists: Get

medical advice/attention P370+378: In case of fire: Use appropriate media for

extinction

P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower

P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if

present and easy to do - continue rinsing

Storage

P405: Store locked up

P403+235: Store in a well ventilated place. Keep cool

<u>Disposal</u>

P501: Dispose of contents/container to appropriate waste site or reclaimer in accordance with local or national regulations

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances	CAS No.	%
Alkyd resin	-	26-57
Low boiling point hydrogen treated naptha	64742-82-1	17-38
Aliphatic hydrocarbon	68956-56-9	1-3
1,2,4-Trimethylbenzene	95-63-6	1-2
Substances determined to be non-hazardous	-	Balance 100%

4. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Semi Solid Liquid

Odour : Aromatic hydrocarbon odour

Odour threshold : Not available pH : Not available Melting point/freezing point : Not available Initial boiling point and boiling range : Between 90

and 200 °C Flash point : 23 °C

Evaporation rate : Not available
Flammability (solid, gas) : Not applicable
Lower flammability or explosive limit : 0.6 % by vol
Upper flammability or explosive limit : 7 % by vol
Vapour pressure : Not available

Vapour density : > 1.00 (Vapour is heavier than air)

Relative density : Not available

Solubility : Not Miscible in water

Partition coefficient : Not available
Auto-ignition temperature : > 515 °C
Decomposition temperature : Not available
Viscosity : 53 - 57 KU

5. FIRST AID MEASURES

INHALATION

- Move person to fresh air and call for medical assistance immediately.
- o If not breathing, give artificial respiration, if breathing is difficult, give oxygen. Keep at rest.

SKIN CONTACT

o In case of contact, immediately flush skin with large amounts of water and soap while

removing contaminated clothing and shoes.

If irritation persists, get medical attention.

EYE CONTACT

- o Immediately flush eyes with large amounts of water until irritation subsides.
- Remove contact lens
- Obtain medical attention, preferably by an ophthalmologist, immediately.

INGESTION

 DO NOT induce vomiting unless directed to do so by a medical personnel. Never give anything by mouth to an unconscious person. Keep at rest. Get medical attention immediately.

6. FIRE FIGHTING MEASURES

SUITABLE FIRE EXTINGUISHING MEDIA

Alcohol-resistant foam, Carbon dioxide, or dry chemical type

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

 Combustion products may include and are not limited to: Carbon monoxide and Carbon dioxide.

SPECIAL PROTECTIVE ACTIONS FOR FIRE FIGHTERS

- Wear full protective clothing and NIOSH-approved self-contained breathing apparatus.
- Use water spray to cool fire-exposed surfaces and to protect personnel. If a leak or spill
 has not ignited, use water spray to disperse the vapours.
- o If possible, isolate product from heat, electrical equipments, sparks and open flames.
- Avoid spraying water directly into storage containers.
- Closed containers may explode when exposed to extreme heat.
- Avoid spreading burning liquid with water, isolate liquid.
- o Do not allow run-off from fire fighting to enter drains or watercourses.

7. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE

- Wear appropriate protective equipment, e.g. respirators, eye protection, gloves and safety shoes.
- Avoid substance contact with eyes. Do not inhale vapours.
- Ensure supply of fresh air in enclosed rooms.

ENVIRONMENTAL PRECAUTIONS

- Eliminate sources of ignition.
- Keep public away.
- o 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.

METHODS AND MATERIALS FOR CONTAINMENTS AND CLEANING UP

- Clean up all spills immediately.
- Absorb spill with absorbent and inert material, then place in container.

8. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

- Use appropriate personal protective equipment
- 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 contact with skin and eyes.
- o For personal protection, see section 8.
- Use only in areas from which all naked lights and other sources of ignition have been excluded.
- Take precautionary measures against static discharge
- Protect from frost and extremes of temperature.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILTIES

- Keep containers tightly closed.
- Containers that are opened should be properly resealed and kept upright to prevent leakage.
- Store in cool, dry and well-ventilated place at temperature between 20°C to 40°C away from heat and sources of ignition.

9. EXPOSURE CONTROL AND PERSONAL

CONTROL PARAMETERS/OCCUPATIONAL LIMITS

ACGIH TLV-TWA	OSHA PEL-TWA

Substances	ppm	mg/m3	ppm	mg/m3
Alkyd resin	100	- 525.00	-	-
Low boiling point hydrogen treated naptha	-	-	-	-
Aliphatic hydrocarbon	- 25	-	- 25	- 123.00
1,2,4-Trimethylbenzene				

WEL = Workplace Exposure Limit.

APPROPRIATE ENGINEERING CONTROL MEASURES

- Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits.
- Ensure eyewash stations and safety showers are close to the workstation location.

PERSONAL PROTECTION

Respiratory Protection: Use of NIOSH-approved respirators with organic vapour cartridges is

recommended.

Hand Protection: Use of solvent resistance type or chemical resistant type of

protective gloves is recommended.

Eye Protection: Use of safety glasses or goggles with side shields is recommended. Skin / Body Protection: Wear chemical resistant clothes and safety shoes when handling

product.

10. STABILITY AND REACTIVITY

REACTIVITY

No dangerous reaction known under condition of normal use.

CHEMICAL STABILITY

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

POSSIBILITY OF HAZARDOUS REACTION

Under normal conditions of storage and use, hazardous reaction will not occur.

CONDITIONS TO AVOID

 Keep away from oxidising agents, strongly alkaline and strongly acidic materials in order to avoid exothermic reactions. Avoid all possible sources of ignition (spark or flame). Do not

pressurize, cut, weld, braze, drill, grind or expose containers to heat or sources of ignition.

HAZARDOUS DECOMPOSITION PRODUCTS

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

11. TOXICOLOGICAL INFORMATION

There is no data available on the product itself. Toxicological information of substances:

Acute oral toxicity

Harmful if swallowed

<u>Substances</u> <u>Oral LD50(Rat), mg/kg</u>

Alkyd resin Data not available Low boiling point hydrogen treated naptha Data

not available Aliphatic hydrocarbon

Data

not available

1,2,4-Trimethylbenzene 5000

Acute dermal/skin toxicity

May be harmful if in contact with skin

Substances Dermal LD50 (Rabbit), mg/kg

Alkyd resin Data not available

Low boiling point hydrogen treated naptha Data not available Aliphatic hydrocarbon Data

not available

1,2,4-Trimethylbenzene Data not available

Acute inhalation toxicity

Vapour concentrations above the recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anesthetic and may have other central nervous system effects.

Substances Inhalation Vapor LC50 (Rat), mg/L/4hr

Alkyd resin Data not available

Low boiling point hydrogen treated naptha Data not available Aliphatic hydrocarbon Data

not available

1,2,4-Trimethylbenzene 18000

Skin corrosion or irritation

Causes skin irritation. Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

Serious eye damage or irritation

May be an eye irritant

Respiratory or skin sensitization

Vapour concentrations above the recommended exposure levels may be irritating to the eyes and the respiratory tract

Germ cell mutagenicity

No information available on the product

Carcinogenicity

No information available on the product

No information available on the product

Specific Target Organ Toxicity (STOT)-single exposure

No information available on the product

Specific Target Organ Toxicity (STOT)-repeated exposure

No information available on the product

Asphyxiation hazard

May be harmful if swallowed and enters airways

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity -No data available

Persistence and degradability

Biodegradation -No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Result of PBT and vPvB assessment

No data available

Other adverse effects

There is no Eco toxicological test data available on the product itself. The product should not be allowed to enter drains or water courses.

Reproductive toxicity

No data available

13. DISPOSAL INFORMATION

The product should not be allowed to enter drains and watercourses.

Preferred methods of waste disposal are incineration or biological treatment in federal/state approved facility. Empty containers should be recycled or disposed through an approved waste management facility or licensed contractor.

All federal, state and local environmental regulations shall be observed

14. TRANSPORT INFORMATION

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

LAND TRANSPORT

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.

UN Number: 1263

Proper shipping name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish,

liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL

(including paint thinning or reducing compound).

Class: Class 3

Packaging Group: III

SEA TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport of Sea.

UN Number: 1263

Proper shipping name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish,

liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL

(including paint thinning or reducing compound).

Class: Class 3
Packaging Group: III
Marine Pollutant No

SEA (Annex II of MARPOL 73/78 and the IBC code)

Not applicable

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by Air

UN Number: 1263

Proper Shipping Name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish,

liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL

(including paint thinning or reducing compound).

Class: Class 3
Packaging Group: III

15. REGULATORY INFORMATION

Applicable national regulations:

- Standards on Hazard communication for hazardous chemicals and dangerous goods
 - SS 586: Part 1: 2014- Transport and storage of dangerous goods
 - SS 586: Part 2: 2014- GHS of classification and labelling of chemicals- Singapore's adaptations
 - SS 586: Part 3: 2008- Preparation of safety data sheets (SDS)
- MOM: Workplace Safety and Health Act & Workplace Safety and Health (General Provisions)
 Regulations

- This product is subject to SDS, labelling, PEL and other requirements in the Acts/Regulations
- NEA: Environmental Protection and Management Act & Environmental Protection and Management (Hazardous Substances) Regulations.
 - This product is not subject to control under this Acts/Regulations
- SCDF: Fire Safety Act & Fire Safety (Petroleum and Flammable Materials) Regulations
 - This product is subject to the requirement of this Acts/Regulations
- SPF: The Arms and Explosive Act, the Arms and Explosives (Explosives) Rules, and the Arms and Explosives (Explosive Precursors) Rules
 - This product is not subject to the requirement of this Acts/Regulations

16. OTHER INFORMATION

Revision date: 04-Jan-2019 Applicable national regulations:

Standards on Hazard communication for hazardous chemicals and dangerous goods

- SS 586: Part 1: 2014-Transport and storage of dangerous goods
- SS 586: Part 2: 2014-GHS of classification and labelling of chemicals
- SS 586: Part 3: 2008(2014)-Preparation of safety data sheet

MOM: Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations

- This product is subject to SDS, labelling, PEL and other requirements in the Acts/Regulations.

NEA: Environmental Protection and Management Act & Environmental Protection and Management (Hazardous Substances) Regulations

- This product is not subject to control under this Acts/Regulations.

SCDF: Fire Safety Act & Fire Safety (Petroleum and Flammable Materials) Regulations

- This product is subject to the requirement of this Acts/Regulations.

SPF: The Arms and Explosive Act, the Arms and Explosives (Explosives) Rules, and the Arms and Explosives (Explosive Precursors) Rules

- This product is not subject to the requirement of this Acts/Regulations.