



# SAFETY DATA SHEET

SDS Number: SDS-505/OTH-0011

Version No: 002

## 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Name: **NIPPON PYLOX SPRAY PAINT**  
Intended Use: Solvent-Based Decorative Paint  
Distributed by: Nippon Paint (S) Co. Pte Ltd  
No. 1 First Lok Yang Road  
Jurong Singapore 629728  
Emergency Phone Number: (65) 6 265 5355  
Fax Numbers: (65) 6 264 1603

## 2. HAZARDS IDENTIFICATION

### GHS Classification:

#### Physical Hazard

Not classified as an physical hazard under GHS criteria

Flammable Hazard Category 2

#### Health Hazard

Skin corrosion/Irritation Category 2

Serious eye damage/irritation Category 2

Respiratory sensitization Category 1

#### Environment Hazard

Hazardous to the aquatic environment  
- Chronic Category 2

#### GHS Pictogram



#### Signal Word

Danger

#### Hazard statements

H225: Extremely flammable liquid and vapour

H315: Causes skin irritation

H319: Causes serious eye irritation

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

H411: Toxic to aquatic life with long lasting effects

#### Precautionary statements

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/lightening equipment

P242 Use only non-sparking tools

P243 Take precautionary measures against static discharge

P261: Avoid breathing dust/fume/gas/mist/vapours/spray  
P264: Wash hands thoroughly after handling  
P273: Avoid release to the environment  
P280 Wear protective gloves/eye protection/face protection  
P285: In case of inadequate ventilation wear respiratory protection

## Response

P321: Specific treatment (see Section 4 of SDS)  
P362: Take off contaminated clothing and wash before reuse  
P391: Collect spillage  
P302+352: IF ON SKIN: Wash with soap and water  
P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing  
P332+313: If skin irritation occurs: Get medical advice/attention  
P337+313: Get medical advice/attention  
P342+311: Call a POISON CENTER or doctor/physician  
P370+378: In case of fire: Use appropriate media for extinction  
P303+P361+P353 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

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

## Disposal

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

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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<u>Ingredient</u>	<u>CAS No.</u>	<u>%</u>
DME	115-10-6	0.0 - 35.0
Toluene	108-88-3	10.0 - 25.0
Propane	74-98-6	0.0 - 20.0
Butane	106-97-8	0.0 - 20.0
Ethyl acetate	141-78-6	10.0 - 18.0
Acrylic resin	Not Available	10.0 - 15.0
Acetone	67-64-1	5.0 - 10.0
Pigment	Not Available	1.0 - 8.0
Xylene	1330-20-7	2.0 - 5.0
Trimethyl benzene	95-63-6	1.0 - 5.0
Butyl cellosolve	111-76-2	1.0 - 5.0
Butyl acetate	123-86-4	0.0 - 5.0
Cyclohexanone	108-94-1	0.0 - 2.0

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### 4. FIRST-AID MEASURES

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#### **INHALATION**

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

#### **SKIN CONTACT**

- 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

- 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.

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## 5. FIRE FIGHTING MEASURES

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### 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.
- 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.
- Do not allow run-off from fire fighting to enter drains or watercourses.

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## 6. ACCIDENTAL RELEASE MEASURES

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### 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.
- 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.
- Disposal in accordance to local/national regulations.

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## 7. HANDLING AND STORAGE

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### 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.

- 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 INCOMPATIBILITIES**

- 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.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**CONTROL PARAMETERS/OCCUPATIONAL LIMITS**

<u>Ingredient</u>	<u>ACGIH TLV-TWA</u>		<u>OSHA PEL-TWA</u>	
	<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>
DME	-	-	-	-
Toluene	50	188	-	-
Propane	-	-	-	-
Butane	-	-	-	-
Ethyl acetate	-	-	-	-
Acrylic resin	-	-	-	-
Acetone	-	-	-	-
Pigment	-	-	-	-
Xylene	100	434	-	-
Trimethyl benzene	-	-	25	-
Butyl cellosolve	-	-	-	-
Butyl acetate	150	-	-	-
Cyclohexanone	-	-	-	-

**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.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	:	Coloured Liquid
Odour	:	Aromatic hydrocarbon odour
Odour threshold	:	Not available
pH	:	Not available
Melting point/freezing point	:	Not available
Initial boiling point and boiling range	:	Not available
Flash point	:	-104 °C (Propane)
Evaporation rate	:	Not available
Flammability (solid, gas)	:	Not applicable
Lower flammability or explosive limit	:	-2.4 (Propane)
Upper flammability or explosive limit	:	-9.5 (Propane)

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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	:	Not available
Decomposition temperature	:	Not available
Viscosity	:	Not available

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## 10. STABILITY AND REACTIVITY

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### 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.

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## 11. TOXICOLOGICAL INFORMATION

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There is no data available on the product itself.

Toxicological information of ingredients:

### Acute Oral toxicity

Harmful if swallowed.

<u>Ingredient</u>	<u>Oral LD50(Rat), mg/kg</u>
DME	Data not available
Toluene	636
Propane	Data not available
Butane	Data not available
Ethyl Acetate	Data not available
Acrylic resin	Data not available
Acetone	Data not available
Pigment	Data not available
Xylene	5000
Trimethyl benzene	8970
Butyl cellosolve	530
Butyl acetate	12000
Cyclohexanone	Data not available

### Acute dermal/skin toxicity

<u>Ingredient</u>	<u>Dermal LD50 (Rabbit), mg/kg</u>
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DME	Data not available
Toluene	12124
Propane	Data not available
Butane	Data not available
Ethyl Acetate	Data not available
Acrylic resin	Data not available
Acetone	Data not available
Pigment	Data not available
Xylene	8000
Trimethyl benzene	Data not available
Butyl cellosolve	612
Butyl acetate	14400
Cyclohexanone	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.

<u>Ingredient</u>	<u>Inhalation Vapor LC50 (Rat), mg/L/4hr</u>
DME	Data not available
Toluene	Data not available
Propane	Data not available
Butane	Data not available
Ethyl Acetate	Data not available
Acrylic resin	Data not available
Acetone	Data not available
Pigment	Data not available
Xylene	Data not available
Trimethyl benzene	24.5
Butyl cellosolve	1400.5
Butyl acetate	Data not available
Cyclohexanone	Data not available

### 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 sensitisation

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.

### Reproductive toxicity

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.

Aspiration hazard  
May be harmful if swallowed and enters airways

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## **12. ECOLOGICAL INFORMATION**

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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 ecotoxicological test data available on the product itself.  
The product should not be allowed to enter drains or water courses

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## **13. DISPOSAL CONSIDERATIONS**

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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.

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## **14. TRANSPORT INFORMATION**

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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: 1950  
Proper shipping name: SPRAY PAINT (AEROSOLS)  
Class: Class 2.1  
Packaging Group: I

### **SEA TRANSPORT**

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

UN Number: 1950  
Proper shipping name: SPRAY PAINT (AEROSOLS)  
Class: Class 2.1  
Packaging Group: I  
Marine Pollutant: Yes

### **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: 1950  
Proper Shipping Name: SPRAY PAINT (AEROSOLS)  
Class: Class 2 .1  
Packaging Group: I

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## **15. REGULATORY INFORMATION**

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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

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## **16. OTHER INFORMATION**

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Revision date: 23-Jul-2015

Abbreviation

ACGIH American Conference of Governmental Industrial Hygienists

TLV Threshold limit value

TWA Time-Weighted Average

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

LD50 Lethal Dose

LC50 Median lethal concentration

IACR International Agency for Research in Cancer

Disclaimer

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