



# SAFETY DATA SHEET

SDS Number: SDS/OTH-0101

Version No: 003

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

Product Name: **FLOOR-PRO 402 WB PU HD SCREED PART A**  
Intended Use: Solvent-Free Floor Coating  
Supplier/Manufacturer: 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

#### Health Hazard

Reproductive toxicity Category 1

#### Environment Hazard

Hazardous to the aquatic environment  
- Acute Category 1

#### GHS Pictogram



#### Signal Word

Danger

#### Hazard statements

H360 May damage fertility or the unborn child  
H400 Very toxic to aquatic life

#### Precautionary statements

P201 Obtain special instructions before use  
P202 Do not handle until all safety precautions have been read and understood  
P273 Avoid release to the environment  
P281 Use personal protective equipment as required

#### Response

P391 Collect spillage  
P308+313 IF exposed or concerned: Get medical advice/attention

#### Storage

P391 Collect spillage  
P405 Store locked up

#### 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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| <b>Ingredient</b>                         | <b>CAS No.</b> | <b>%</b> |
|---|----------------|----------|
| Dibutyl phthalate                         | 84-74-2        | 3        |
| Substances determined to be non-hazardous | 1333-86-4      | 97       |

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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.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**CONTROL PARAMETERS/OCCUPATIONAL LIMITS**

- No data available

**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.                        |

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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|   |   |               |
|---|---|---------------|
| Appearance                              | : | Liquid        |
| Odour                                   | : | Mild          |
| Odour threshold                         | : | Not available |
| pH                                      | : | Not available |
| Melting point/freezing point            | : | Not available |
| Initial boiling point and boiling range | : | Not available |

|                                       |   |                 |
|---------------------------------------|---|-----------------|
| Flash point                           | : | Not available   |
| Evaporation rate                      | : | Not available   |
| Flammability (solid, gas)             | : | Not available   |
| Lower flammability or explosive limit | : | Not available   |
| Upper flammability or explosive limit | : | Not available   |
| Vapour pressure                       | : | Not available   |
| Vapour density                        | : | Not available   |
| Relative density                      | : | 1.047 (Water=1) |
| Solubility                            | : | Not available   |
| Partition coefficient                 | : | Not available   |
| Auto-ignition temperature             | : | Not available   |
| Decomposition temperature             | : | 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

No information available on the product.

#### Acute dermal/skin toxicity

No information available on the product.

#### Acute inhalation toxicity

No information available on the product.

#### Skin corrosion or irritation

No information available on the product.

#### Serious eye damage or irritation

No information available on the product.

#### Respiratory or skin sensitisation

No information available on the product.

#### 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

No information available on the product.

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## 12. ECOLOGICAL INFORMATION

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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**

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.

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

Not applicable

**AIR TRANSPORT**

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

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**15. REGULATORY INFORMATION**

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- 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: 01-Apr-2019

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

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 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.



# SAFETY DATA SHEET

SDS Number: SDS/OTH-00102

Version No: 003

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

|                         |  |
|-------------------------|--|
| Product Name:           | <b>FLOOR-PRO 402 WB PU HD SCREED PART B</b>  |
| Intended Use:           | Solvent-Free Floor Coating   |
| Supplier/Manufacturer:  | Nippon Paint (S) Co. Pte Ltd<br>No. 1 First Lok Yang Road<br>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

#### Health Hazard

Acute Toxicity:

|                                |            |
|--------------------------------|------------|
| - Inhalation                   | Category 4 |
| Skin corrosion/Irritation      | Category 2 |
| Serious eye damage             | Category 2 |
| Respiratory sensitization      | Category 1 |
| Skin sensitization             | Category 1 |
| Carcinogenicity                | Category 2 |
| Specific target organ toxicity |            |
| -Single exposure               | Category 3 |
| - Repeated exposure            | Category 2 |

#### Environment Hazard

Not classified as an environmental hazard under GHS criteria

#### GHS Pictogram



#### Signal Word

Danger

#### Hazard statements

H315 Causes skin irritation  
H317 May cause an allergic skin reaction  
H319 Causes serious eye irritation  
H332 Harmful if inhaled  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H335 May cause respiratory irritation  
H336 May cause drowsiness or dizziness  
H351 Suspected of causing cancer  
H373 May cause 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
- 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
- P271 Use only outdoors or in a well-ventilated area
- 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
- P285 In case of inadequate ventilation wear respiratory protection

Response

- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- P314 Get Medical advice/attention if you feel unwell
- P321 Specific treatment (see Section 4 of SDS)
- P362 Take off contaminated clothing and wash before reuse
- P363 Wash contaminated clothing before reuse
- P302+352 IF ON SKIN: Wash with soap and water
- P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P304+341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
- P308+313 IF exposed or concerned: Get medical advice/attention
- P332+313 If skin irritation occurs: Get medical advice/attention
- P337+313 If eye irritation persists: Get medical advice/attention
- P342+311 Call a POISON CENTER or doctor/physician
- 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+233 Store in a well ventilated place. Keep container tightly closed

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> |
|--|----------------|----------|
| Diphenylmethane-diisocyanate, isomers and homologues | 9016-87-9      | ≤98      |
| Substances determined to be non-hazardous            | 1333-86-4      | 2        |

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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**

- No data available

**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                              | : | Liquid          |
| Odour                                   | : | Mild            |
| Odour threshold                         | : | Not available   |
| pH                                      | : | Not available   |
| Melting point/freezing point            | : | Not available   |
| Initial boiling point and boiling range | : | >300°C          |
| Flash point                             | : | Not applicable  |
| Evaporation rate                        | : | Not available   |
| Flammability (solid, gas)               | : | Not applicable  |
| Lower flammability or explosive limit   | : | Not available   |
| Upper flammability or explosive limit   | : | Not available   |
| Vapour pressure                         | : | Not available   |
| Vapour density                          | : | Not available   |
| Relative density                        | : | 1.238 (Water=1) |
| Solubility                              | : | Not available   |
| Partition coefficient                   | : | Not available   |
| Auto-ignition temperature               | : | Not available   |
| Decomposition temperature               | : | Not available   |

**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.

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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

No information available on the product.

#### Acute dermal/skin toxicity

No information available on the product.

#### Acute inhalation toxicity

No information available on the product.

#### Skin corrosion or irritation

No information available on the product.

#### Serious eye damage or irritation

No information available on the product.

#### Respiratory or skin sensitisation

No information available on the product.

#### 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

No information available on the product.

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## **12. ECOLOGICAL INFORMATION**

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#### 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

---

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**

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.

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

Not applicable

**AIR TRANSPORT**

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

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### 15. REGULATORY INFORMATION

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- 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: 01-Apr-2019

### 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

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 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.



# SAFETY DATA SHEET

SDS Number: SDS/OTH-0103

Version No: 003

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

|                         |  |
|-------------------------|--|
| Product Name:           | <b>FLOOR-PRO 402 WB PU HD SCREED PART C</b>  |
| Intended Use:           | Solvent-Free Floor Coating   |
| Supplier/Manufacturer:  | Nippon Paint (S) Co. Pte Ltd<br>No. 1 First Lok Yang Road<br>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

#### Health Hazard

|  |            |
|--|------------|
| Skin corrosion/Irritation                          | Category 2 |
| Serious eye damage/irritation                      | Category 1 |
| Specific target organ toxicity<br>-Single exposure | Category 3 |

#### Environment Hazard

Not classified as an environmental hazard under GHS criteria

#### GHS Pictogram



#### Signal Word

Warning

#### Hazard statements

H315 Causes skin irritation  
H318 Causes serious eye damage  
H335 May cause respiratory irritation  
H336 May cause drowsiness or dizziness

#### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray  
P264 Wash hands thoroughly after handling  
P271 Use only outdoors or in a well-ventilated area  
P280 Wear protective gloves/protective clothing/eye protection/face protection

#### Response

P310 Immediately call a POISON CENTER or doctor/physician  
P312 Call a POISON CENTER or doctor/physician if you feel unwell  
P321 Specific treatment (see Section 4 of SDS)  
P362 Take off contaminated clothing and wash before reuse

P302+352 IF ON SKIN: Wash with soap and water  
P304+340 IF INHALED: 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  
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+233 Store in a well ventilated place. Keep container tightly closed

Disposal

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

---

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

---

| <u>Ingredient</u> | <u>CAS No.</u> | <u>%</u> |
|-------------------|----------------|----------|
| Silica sand       | Mixture        | 58       |
| White Cement      | 65997-5-1      | <80      |

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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.

---

### 5. 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.
- 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.

---

## 6. 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.
- 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.

---

## 7. 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.
- 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

- No data available

### 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

|   |   |                    |
|---|---|--------------------|
| Appearance                              | : | Powder             |
| Odour                                   | : | Mild               |
| Odour threshold                         | : | Not available      |
| pH                                      | : | Not available      |
| Melting point/freezing point            | : | Not available      |
| Initial boiling point and boiling range | : | Not available      |
| Flash point                             | : | Not available      |
| Evaporation rate                        | : | Not available      |
| Flammability (solid, gas)               | : | Not available      |
| Lower flammability or explosive limit   | : | Not available      |
| Upper flammability or explosive limit   | : | Not available      |
| Vapour pressure                         | : | Not available      |
| Vapour density                          | : | Not available      |
| Relative density                        | : | Not available      |
| Solubility                              | : | Insoluble in water |
| Partition coefficient                   | : | Not available      |
| Auto-ignition temperature               | : | Not available      |
| Decomposition temperature               | : | Not available      |

---

## 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 ingredients:

### Acute Oral toxicity

No information available on the product.

### Acute dermal/skin toxicity

No information available on the product.

### Acute inhalation toxicity

No information available on the product.

Skin corrosion or irritation

No information available on the product.

Serious eye damage or irritation

No information available on the product.

Respiratory or skin sensitisation

No information available on the product.

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

No information available on the product.

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## 12. ECOLOGICAL INFORMATION

---

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

---

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

---

Transport to be in accordance with ADR/RID for road/rail, 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.

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

Not applicable

#### **AIR TRANSPORT**

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

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### **15. REGULATORY INFORMATION**

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- 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: 01-Apr-2019

#### 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

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

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.



# SAFETY DATA SHEET

SDS Number: SDS/OTH-0104

Version No: 003

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

|                         |  |
|-------------------------|--|
| Product Name:           | FLOOR-PRO 402 WB PU HD SCREED PART D   |
| Intended Use:           | Solvent-Free Floor Coating   |
| Supplier/Manufacturer:  | Nippon Paint (S) Co. Pte Ltd<br>No. 1 First Lok Yang Road<br>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

#### Health Hazard

|  |            |
|--|------------|
| Skin corrosion/Irritation                          | Category 2 |
| Serious eye damage/irritation                      | Category 1 |
| Specific target organ toxicity<br>-Single exposure | Category 3 |

#### Environment Hazard

Not classified as an environmental hazard under GHS criteria

#### GHS Pictogram



#### Signal Word

Warning

#### Hazard statements

H315 Causes skin irritation  
H318 Causes serious eye damage  
H335 May cause respiratory irritation  
H336 May cause drowsiness or dizziness

#### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray  
P264 Wash hands thoroughly after handling  
P271 Use only outdoors or in a well-ventilated area  
P280 Wear protective gloves/protective clothing/eye protection/face protection

#### Response

P310 Immediately call a POISON CENTER or doctor/physician  
P312 Call a POISON CENTER or doctor/physician if you feel unwell  
P321 Specific treatment (see Section 4 of SDS)  
P362 Take off contaminated clothing and wash before reuse

P302+352 IF ON SKIN: Wash with soap and water  
P304+340 IF INHALED: 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  
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+233 Store in a well ventilated place. Keep container tightly closed

Disposal

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

---

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

---

| <u>Ingredient</u> | <u>CAS No.</u> | <u>%</u> |
|-------------------|----------------|----------|
| Colour Pigment    | Mixture        | <10      |
| White Cement      | 65997-5-1      | <80      |

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### 4. FIRST-AID MEASURES

---

**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.

---

### 5. 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.
- 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.

---

## 6. 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.
- 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.

---

## 7. 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.
- 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

- No data available

### 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

|   |   |                    |
|---|---|--------------------|
| Appearance                              | : | Powder             |
| Odour                                   | : | Mild               |
| Odour threshold                         | : | Not available      |
| pH                                      | : | Not available      |
| Melting point/freezing point            | : | Not available      |
| Initial boiling point and boiling range | : | Not available      |
| Flash point                             | : | Not available      |
| Evaporation rate                        | : | Not available      |
| Flammability (solid, gas)               | : | Not available      |
| Lower flammability or explosive limit   | : | Not available      |
| Upper flammability or explosive limit   | : | Not available      |
| Vapour pressure                         | : | Not available      |
| Vapour density                          | : | Not available      |
| Relative density                        | : | Not available      |
| Solubility                              | : | Insoluble in water |
| Partition coefficient                   | : | Not available      |
| Auto-ignition temperature               | : | Not available      |
| Decomposition temperature               | : | Not available      |

---

## 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 ingredients:

### Acute Oral toxicity

No information available on the product.

### Acute dermal/skin toxicity

No information available on the product.

### Acute inhalation toxicity

No information available on the product.



Skin corrosion or irritation

No information available on the product.

Serious eye damage or irritation

No information available on the product.

Respiratory or skin sensitisation

No information available on the product.

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

No information available on the product.

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## **12. ECOLOGICAL INFORMATION**

---

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

---

## **13. DISPOSAL CONSIDERATIONS**

---

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**

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.

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

Not applicable

#### **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**

---

- 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: 01-Apr-2019

#### 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

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

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.



# SAFETY DATA SHEET

SDS Number: SDS/OTH-0105

Version No: 003

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

Product Name: **FLOOR-PRO 402 WB PU HD SCREED PART E**  
Intended Use: Solvent-Free Floor Coating  
Supplier/Manufacturer: 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

#### Health Hazard

Skin corrosion/Irritation Category 2  
Serious eye damage/irritation Category 1  
Specific target organ toxicity -Single exposure Category 3

#### Environment Hazard

Not classified as an environmental hazard under GHS criteria

#### GHS Pictogram



#### Signal Word

Warning

#### Hazard statements

H315 Causes skin irritation  
H318 Causes serious eye damage  
H335 May cause respiratory irritation  
H336 May cause drowsiness or dizziness

#### Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray  
P264 Wash hands thoroughly after handling  
P271 Use only outdoors or in a well-ventilated area  
P280 Wear protective gloves/protective clothing/eye protection/face protection

#### Response

P310 Immediately call a POISON CENTER or doctor/physician  
P312 Call a POISON CENTER or doctor/physician if you feel unwell  
P321 Specific treatment (see Section 4 of SDS)  
P362 Take off contaminated clothing and wash before reuse

P302+352 IF ON SKIN: Wash with soap and water  
P304+340 IF INHALED: 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  
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+233 Store in a well ventilated place. Keep container tightly closed

Disposal

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

---

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

---

| <u>Ingredient</u> | <u>CAS No.</u> | <u>%</u> |
|-------------------|----------------|----------|
| Silica sand       | Mixture        | 58       |
| White Cement      | 65997-5-1      | <80      |

---

### 4. FIRST-AID MEASURES

---

**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.

---

### 5. 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.
- 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.

---

## 6. 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.
- 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.

---

## 7. 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.
- 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

- No data available

### 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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|   |   |                    |
|---|---|--------------------|
| Appearance                              | : | Powder             |
| Odour                                   | : | Mild               |
| Odour threshold                         | : | Not available      |
| pH                                      | : | Not available      |
| Melting point/freezing point            | : | Not available      |
| Initial boiling point and boiling range | : | Not available      |
| Flash point                             | : | Not available      |
| Evaporation rate                        | : | Not available      |
| Flammability (solid, gas)               | : | Not available      |
| Lower flammability or explosive limit   | : | Not available      |
| Upper flammability or explosive limit   | : | Not available      |
| Vapour pressure                         | : | Not available      |
| Vapour density                          | : | Not available      |
| Relative density                        | : | Not available      |
| Solubility                              | : | Insoluble in water |
| Partition coefficient                   | : | Not available      |
| Auto-ignition temperature               | : | Not available      |
| Decomposition temperature               | : | 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

No information available on the product.

### Acute dermal/skin toxicity

No information available on the product.

### Acute inhalation toxicity

No information available on the product.

Skin corrosion or irritation

No information available on the product.

Serious eye damage or irritation

No information available on the product.

Respiratory or skin sensitisation

No information available on the product.

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

No information available on the product.

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## 12. ECOLOGICAL INFORMATION

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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**

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.

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

Not applicable

**AIR TRANSPORT**

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

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**15. REGULATORY INFORMATION**

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- 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: 01-Apr-2019

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

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

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.