

# Material Safety Data Sheet

## PU Varnish Interior

Product Code - F650PU75

### 1. Identification Of The Preparation And Company

<b>Preparation/Product Name</b>	PU Varnish Interior
<b>Product Code</b>	F650PU75
<b>Reg Number</b>	
<b>Intended use</b>	See Technical Data Sheet.
<b>Application Method</b>	See Technical Data Sheet.
<b>Company Name</b>	Akzo Nobel Oman SAOC PO Box 531 Ruwi, 112 Sultanate of Oman
<b>Telephone No.</b>	+968 24446218
<b>Fax No.</b>	+968 24446962
<b>24 hour Emergency Telephone No.</b>	+968 24446218

### 2. Hazard Identification of The Product

Substance/Preparation Classification:

This preparation is dangerous under 67/548/EEC and 1999/45/EC directives and subsequent amendments. Therefore, this preparation requires a safety data sheet according to the Regulation (EC) 1907/2006 and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

Danger Symbols F, Xi, Xn  
Phrases R: 10 - 68

Because of its chemical physical features, this product is graded as flammable. Harmful by inhalation and in contact with skin, Irritating to skin, Possible risk of harm to unborn child.

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### 3. Composition/Information on Ingredients

If the product contains substances that present a health hazard within the meaning of the Dangerous Substances Directive 67/548/EC, or have occupational exposure limits detailed in EH40, these substances are listed below.

Ingredient	CAS	Concentration	Symbol(s)	Risk phrases (*)
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY	64742-48-9	30 - 50 %	Xn	R10 R51-53 R65 R66

\* The full texts of the phrases are shown in section 16.

### 4. First Aid Measures

#### General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

#### Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

#### Eye Contact

Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention.

#### Skin Contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Do NOT use solvents or thinners.

#### Ingestion

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

### 5. Fire-Fighting Measures

Closed containers exposed to the heat of a fire may lead to pressure rise and explode. For information on environmental and health risks, protection of the respiratory airways, ventilation and individual protective measures, refer to the other sections of the sheet.

Extinguishing measures: CO<sub>2</sub>, foam, chemical powder for flammable liquids. Water may not be effective to extinguish the fire, nevertheless it should be used to cool the containers exposed to flames and prevent fires and explosions. For leakage and spillage that have not caught fire, nebulized water may be used to disperse the flammable vapor and protect the people involved in stopping the leakage.

Equipment: wear equipment complete with helmet and face shield and protection of the neck, self-breathing apparatus at pressure of demand. Insulated jacket and trousers, with bands around the arms, legs and waist.

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### 6. Accidental Release Measures

Review fire and safety precautions before proceeding with clean up. Use appropriate personal protective equipment during clean up. Keep spectators away. Collect the absorbed material in plastic bag for final disposal. Transfer liquid to container for recovery or disposal.

Exclude sources of ignition. Cover with inert absorbent material. Collect spillages by means of spark proof equipment. Use water only to remove residuals, so as not to run the risk of entering the sewer. Do not let the product dry. Contaminated clothes must be left to soak in water before washing. In order to choose safety measures and protection equipment, please see the other sections of this sheet.

Spillage in waters: remove the liquid from the surface with flameproof pumps or manual pumps or suitable absorbent material. Resort to sinking and/or dispersion of the product with suitable substances in open waters, if permitted by the law. Contaminated material may be incinerated or land filled according to current local or central regulation.

### 7. Handling And Storage

#### Handling

Use appropriate personal protective equipment [PPE] during handling. Protect against physical damage. Observe good hygiene practices. Handle containers carefully to prevent damage and spillage. Keep the containers closed when not used.

#### In Storage

Store in a well-ventilated, dry place, away from sources of heat and direct sunlight or thermal shocks and frost. Store at 15–45 °C temperature. Keep container tightly closed when not in use. Maintain good housekeeping. Store on concrete or other impervious floor, preferably with binding to contain any spillage. Do not stack more than 3 pallets high. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in the original container or one of the same materials. Prevent unauthorized access.

Avoid the accumulation of electrostatic charges. Store the containers sealed and in a well-ventilated place. Vapors may ignite with explosion, it is therefore necessary to avoid accumulation keeping the windows and doors open, ensuring cross ventilation.

Without adequate ventilation, the vapours may accumulate at the bottom and ignite at a distance, if triggered off, with the risk of flashback. Keep far away from sources of heat, sparks and naked flames.

#### In Use

Avoid skin and eye contact. Observe label precautions. Smoking, eating and drinking should be prohibited in all preparation and application areas. Never use pressure to empty a container; containers are not pressure vessels. Vigorous stirring and flow through the piping and equipment may cause the formation and accumulation of electrostatic charges due to the low conductivity of the product in order to avoid the risk of fire outbreak and explosion never use compressed air during movement. Do not smoke, use matches or lighters. Keep the containers earthed while decanting and wear antistatic boots.

### 8. Exposure Controls and Personal Protection

#### Exposure Controls

In order to minimize exposure as far as possible, it is strongly recommended to use adequate individual protective measures, such as: masks suitable for the product goggles, gloves and overall. Do not eat, drink or smoke while handling it. Accurately wash the hands with soap and water before meals and at the end of the work shift.

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and

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good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapour below occupational exposure limits suitable respiratory protection must be worn.

### Exposure Limits

The following workplace exposure limits have been established by the Health and Safety Executive as published in EH40.

Material	Long term (8hr TWA)		Short Term (15 min ave.)		Comments
	mg/m3	ppm	mg/m3	ppm	
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY	350	--	--	--	Skin

For Key to entries in 'Comments' column see Section 16

### Personal Protection

A work place assessment should be carried out to ensure that the PPE mentioned below provides the level of protection required.

### Respiratory Protection

Respiration protection is not required if good ventilation in the area is maintained. Otherwise suggested to wear MSHA/NIOSH approved respirator where vapor concentrations is more.

### Eye Protection

Use chemical splash proof safety goggles or equivalent.

### Hand Protection

Use Impervious (rubber, neoprene, pvc, etc.) hand gloves, aprons. Accurately wash the hands with soap and water before meals and at the end of the work shift.

### Skin Protection

Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. Accurately wash the hands with soap and water in the case of contact.

## 9. Physical and Chemical Properties

<b>Physical State</b>	Clear Liquid
<b>Viscosity</b>	50 ± 5 (FC B4 @ 25°C)
<b>Flash point</b>	40 °C
<b>Specific gravity</b>	0.88 ± 0.02 Kg/Ltr.
<b>Solid content (By Wt)</b>	49 ± 2 %
<b>VOC</b>	450 gm/ltr.

## 10. Stability and Reactivity

The product is stable in normal conditions of use and storage. When heated or in the event of a fire, carbon oxides may be released and vapors which are dangerous to health. The vapors may also form explosive mixtures with the air.

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**Conditions to avoid:** Stable under recommended storage and handling conditions. When exposed to high temperatures may produce hazardous decomposition products.

**Materials to avoid:** Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, and strong acids.

**Hazardous decomposition products:** Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, and oxides of nitrogen.

### 11. Toxicological Information

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

In the most serious cases, inhalation of this product may cause larynx and bronchial tube edema and irritation, chemical pneumonia and pulmonary edema. Upon contact with skin, this product may irritate it, causing an increase in skin temperature, swelling and itchiness, ingestion of even small amounts of this product may cause health problems (stomach pain, nausea, sickness, and diarrhea).

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

**Acute toxicity:**

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY: Low boiling point hydrogen treated naphtha: Inhalation (LC50 Rat): >20 mg/L 1 HR, Oral (LD50 Rat):>7000 mg/kg, Dermal (LD50 Rabbit): >2000 mg/kg.

### 12. Ecological Information

Use this product according to good working practices. Avoid litter. Inform the competent authorities, should the product reach waterways of sewers or contaminates soil or vegetation.

Do not allow entering soil, waterways and open bodies of water.

### 13. Disposal Considerations

The contaminated/discarded material may be disposed off in accordance with current local or central regulation. Consider the possibility of burning the product in a suitable incinerator. Acid or basic products must always be neutralized before undergoing any treatment, including biological treatment whenever feasible. If the waste is solid, it can be disposed off in a landfill.

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### 14. Transport Information

This preparation is not classified as dangerous according to international transport regulations. These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous goods by Road (ADR) and in all the applicable national regulations.

These goods must be packed in their original packaging or in packaging made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

#### Road and rail transport:

ADR/RID:	3
UN:	1263
Packing Group:	II
Label:	3
Nr.Kemier:	33
Proper Shipping Name:	Paint or paint related material
Special Provision:	640D

#### Carriage by sea (shipping):

- IMCO Class:	3
- UN:	1263
- Packing Group	II
- Label:	3
- EMS:	F-E, S-E
- Proper Shipping Name:	Paint or paint related material

#### Transport by air:

- IATA:	3
- UN:	1263
- Packing Group	II
- Label:	3
- Cargo:	
- Packaging instructions:	307
- Maximum quantity	60L

#### Pass:

- Packaging instructions	305
- Maximum quantity:	5 L
- Special Instructions	A72

### 15. Regulatory Information

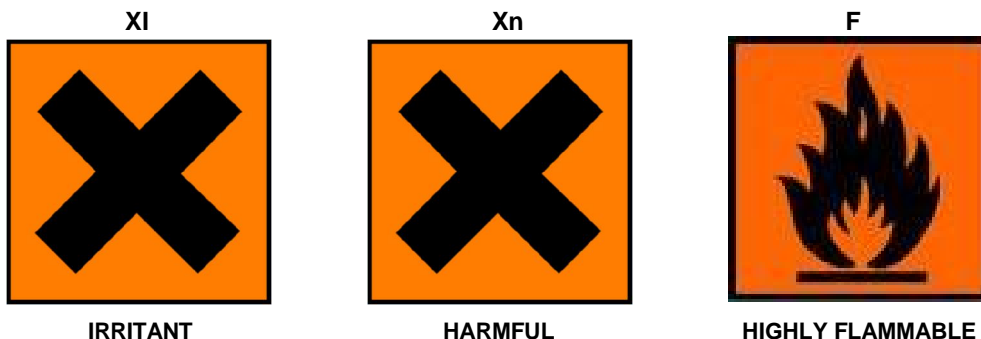
In accordance with EC Directive 88/379/EEC and the Chemicals (Hazard Information and Packaging for Supply) Regulations SI /3247/1994 this product is labelled as follows:

#### Symbol(s)

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Contains: NAPHTHA (PETROLEUM), HYDROTREATED HEAVY

### R and S Phrases:

R11	Highly flammable.
R23	Toxic by inhalation.
R 36/37	Irritating to eyes and respiratory system.
R 37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R61	May cause harm to the unborn child.
R67	Vapors may cause drowsiness and dizziness.
S 9	Keep container in a well-ventilated place
S 16	Keep away from sources of ignition – No smoking
S 23	Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer)
S 24	Avoid contact with skin
S 25	Avoid contact with eyes
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S 33	Take precautionary measures against static discharges
S 51	Use only in well-ventilated areas
S 23	Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer)
S 36	Wear suitable protective clothing
S 39	Wear eye/face protection

### 16. Other Information

FOR PROFESSIONAL USE ONLY IMPORTANT NOTE: The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Safety Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data

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sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given is subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

The information in this Health & Safety Data Sheet is required pursuant to Directive 91/155/EEC and the Chemicals (Hazard Information & Packaging for Supply) Regulations 1994.

Key to 'Comments' column in Section 8.

- (+) There is a risk of absorption through unbroken skin.
- (C) Capable of causing cancer and/or heritable genetic damage
- (R) Suppliers recommended limit
- (S) Capable of causing occupational asthma

The full text of the R phrases appearing in section 3 is:

R10	Flammable.
R11	Highly flammable.
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R36/37/38	Irritating to eyes, respiratory system and to skin.
R41	Risk of serious damage to eyes.
R 48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.
R65	Harmful: May cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapors may cause drowsiness and dizziness.