

# Safety Data Sheet

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Pentas Flora EcoBase Oil SN 300

**Product Use :** Base Oil

**Synonyms/Trade Name:** neutral oil, base stock, re-refined oil, high VI paraffinic oil

**Company Identification:**

**Pentas Flora Sdn. Bhd.**

Lot 183, Jalan 5,  
Kompleks Perabot Olak Lempit,  
42700 Banting Selangor  
www.pentasflora.com.my

Emergency Responses.  
Telephone No: 603-3149 1288

## SECTION 2 - HAZARD IDENTIFICATION

This material is not hazardous according to regulatory guidelines (see (MSDS Section 15)).

**Other hazard information:**

### PHYSICAL/CHEMICAL HAZARDS

No significant hazards.

### HEALTH HAZARDS

High-pressure injection under skin may cause serious damage. Excessive exposure may result in eye, skin, or respiratory irritation.

### ENVIRONMENTAL HAZARDS

No significant hazards.

**NFPA Hazard ID:** Health: 0 Flammability: 1 Reactivity: 0

**NFPA Rating:**



**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice.

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## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Distillates, Paraffinic	64742-54-7	100%

## SECTION 4 - FIRST AID MEASURES

**Eye:** No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and thoroughly flush eyes with water.

**Skin:** No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, wash contact areas with soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Ingestion:** No specific first aid measures are required. Do not induce vomiting. As a precaution or if discomfort occurs, get medical assistance.

**Inhalation:** No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance .

## SECTION 5 - FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

### PROTECTION OF FIRE FIGHTERS

**Fire Fighting Instructions:** This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, smoke, incomplete combustion products and gases including sulfur oxides and assorted oxides of carbon.

### FLAMMABILITY PROPERTIES

**Flash Point [Method]:** >180°C (356°F) [ASTM D-92]

**Flammable Limits (Approximate volume % in air):** Not applicable

**Autoignition Temperature:** N/D

## SECTION 6 ACCIDENTAL RELEASES MEASURES

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**Notification Procedures:** In the event of a spill or accidental release, notify authorities in accordance with all applicable regulations.

**Protective Measures:** Avoid contact with spilled material. Eliminate all sources of ignition in vicinity of spilled material. Keep unnecessary personnel away from spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

**Spill Management:** Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

**Reporting:** Report spills to local authorities as appropriate or required.

## SECTION 7 - HANDLING AND STORAGE

**Precautionary Measures:** Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling.

**General Handling Information:** Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

**Static Hazard:** Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

**Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum re-conditioner or disposed of properly.

**Storage:** Store in a cool dry location. Keep away from incompatible materials (Section 10). Do not store in open or unlabelled containers.

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure limits/standards for materials that can be formed when handling this**

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**product:** When mists/aerosols can occur the following are recommended: 5 mg/m<sup>3</sup> - ACGIH TLV (inhalable fraction), 5 mg/m<sup>3</sup> - OSHA PEL.

**Note:** Limits/standards shown for guidance only. Follow applicable regulations.

No biological limits allocated.

## GENERAL CONSIDERATIONS:

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**ENGINEERING CONTROLS:** Use in a well-ventilated area.

## PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin Protection:** No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton.

**Respiratory Protection:** No respiratory protection is normally required. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

## Occupational Exposure Limits :

Component	Agency	PEL/TLV	STEL	Ceiling	Notation
Oil Mist, Mineral	DOSH	5 mg/mg <sup>3</sup> PEL	-	-	-
Oil Mist, Mineral	OSHA	5 mg/mg <sup>3</sup> TLV	-	-	-

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**Note:** Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

**Attention:** The data below are typical values and do not constitute a specification

### General Information

Color: Colorless to Light Yellow

Physical State: Liquid

Odor: Petroleum odor

Odor Threshold: No data available

pH: Not Applicable

Vapor Pressure: <0.01 mmHg @ 37.8 °C (100 °F)

Vapor Density (Air = 1): >1

Boiling Point: >316°C (600°F)

Solubility: Soluble in hydrocarbons; insoluble in water

Freezing Point: Not Applicable

Melting Point: -9°C (+15°F)

Specific Gravity: 0.86 - 0.87 @ 15.6°C (60.1°F) / 15.6°C (60.1°F)

Density: 7.16 lb/gal @ 15.6°C (60°F)

Volatile Organic

Compounds (VOC) : 2.9 %weight (Approximate)

Viscosity: 6 - 10 mm<sup>2</sup>/s @ 100°C (212°F)

Evaporation Rate: No data available

Octanol/Water Partition Coefficient: No data available

### FLAMMABLE PROPERTIES:

Flashpoint: (Cleveland Open Cup) 200 °C (392 °F) Minimum

Autoignition: No data available

Flammability (Explosive) Limits (% by volume in air): Lower: Not Applicable Upper: Not Applicable

## SECTION 10 - STABILITY AND REACTIVITY

**Chemical Stability:** This material is considered stable and non-reactive under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**Incompatibility With Other Materials:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

**Hazardous Decomposition Products:** None known (None expected)

**Hazardous Polymerization:** Hazardous polymerization will not occur under normal temperatures and pressures.

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## SECTION 11 - TOXICOLOGICAL INFORMATION

**Eye:** Not expected to cause prolonged or significant eye irritation.

**Eye Irritation:** The eye irritation hazard is based on evaluation of data for similar materials or product components.

**Skin:** Contact with the skin is not expected to cause prolonged or significant irritation. Contact with the skin is not expected to cause an allergic skin response. Not expected to be harmful to internal organs if absorbed through the skin.

**Acute Dermal Toxicity:** The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.

**Skin Irritation:** The skin irritation hazard is based on evaluation of data for similar materials or product components.

**Skin Sensitization:** The skin sensitization hazard is based on evaluation of data for similar materials or product components.

**Ingestion:** Not expected to be harmful if swallowed.

**Acute Oral Toxicity:** The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.

**Inhalation:** Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

**Acute Inhalation Toxicity:** The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

**Acute Toxicity Estimate:** Not Determined

**Germ Cell Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.

## SECTION 12 - ECOLOGICAL INFORMATION

### ECOTOXICITY

This material is not expected to be harmful to aquatic organisms. The product has not been tested. The statement has been derived from the properties of the individual components.

### MOBILITY

No data available.

### PERSISTENCE AND DEGRADABILITY

Product has not been tested. However, the material is expected to be inherently biodegradable based on results with products of similar structure and composition.

### POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available.

Octanol/Water Partition Coefficient: No data available

## SECTION 13 - DISPOSAL CONSIDERATION

### Waste Disposal

Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor to deal satisfactorily with type of product should be established beforehand. Do not dispose into the environment, in drains or in water courses.

### Product Disposal

Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed in a safe manner (see Disposal instruction).

### Container Disposal

Recycle or dispose in accordance with the legislation on force with a recognized collector or contractor.

## SECTION 14 - TRANSPORT INFORMATION

### Land transport (ADR/RID):

#### ADR

This product is not classified as dangerous for this mode of transport. Therefore 14.1 UN Number, 14.2 UN Proper Shipping name, 14.3 Transport hazard class(es), 14.4 Packing group, 14.5 Environmental hazards, 14.6 Special precautions for user do not apply.

#### RID

This product is not classified as dangerous for this mode of transport. Therefore 14.1 UN Number, 14.2 UN Proper Shipping name, 14.3 Transport hazard class(es), 14.4 Packing group, 14.5 Environmental hazards, 14.6 Special precautions for user do not apply.

### Inland waterways transport (ADN):

This product is not classified as dangerous for this mode of transport. Therefore 14.1 UN Number, 14.2 UN Proper Shipping name, 14.3 Transport hazard class(es), 14.4 Packing group, 14.5 Environmental hazards, 14.6 Special precautions for user do not apply.

### Sea transport (IMDG Code):

This product is not classified as dangerous for this mode of transport. Therefore 14.1 UN Number, 14.2 UN Proper Shipping name, 14.3 Transport hazard class(es), 14.4 Packing group, 14.5 Environmental hazards, 14.6 Special precautions for user do not apply.

### Air transport (IATA):

This product is not classified as dangerous for this mode of transport. Therefore 14.1 UN Number, 14.2 UN Proper Shipping name, 14.3 Transport hazard class(es), 14.4 Packing group, 14.5 Environmental hazards, 14.6 Special precautions for user do not apply.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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Pollution Category: Not applicable.  
Ship Type: Not applicable.  
Product Name: Not applicable.  
Special Precaution: Not applicable.

**Additional Information:** MARPOL Annex 1 rules apply for bulk shipments by sea

## SECTION 15 - REGULATORY INFORMATION

### REGULATORY LISTS SEARCHED:

01-1=IARC Group 1

01-2A=IARC Group 2A

01-2B=IARC Group 2B

No components of this material were found on the regulatory lists above.

### CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), EINECS (European Union), ENCS (Japan), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United States).

## SECTION 16 - OTHER INFORMATION

**REVISION STATEMENT:** This is a new Material Safety Data Sheet

**Revision Date:** October 26, 2015

The information and recommendations contained herein are to the best of Pentas Flora's knowledge and belief, accurate and reliable as of the date issued. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users.