

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **FORMOIL**

Company: BASF South East Asia Pte Ltd  
Address: 33 Tuas Avenue 11  
Singapore 639090

Telephone number: +65 6861 6766  
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### 2. HAZARDS IDENTIFICATION

Safety hazards: Combustible material, low hazard. Avoid ignition sources.

Health hazards: Respiratory irritant. Dizziness, nausea, loss of consciousness in cases of over exposure. Product contains polycyclic aromatic hydrocarbons.  
Prolonged repeated skin contact may cause skin irritation or more serious skin disorders.

Environmental hazards: See section 12.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Mixture of oil derived chemicals and minor active ingredients.

Hazardous Ingredients: n.a.

CAS No: n.as.

Hazard symbols: n.as.

R-phrases: n.as.

% Concentration: n.as.

### 4. FIRST AID MEASURES

Ingestion: Do NOT induce vomiting. Contact doctor immediately. Rinse mouth and give glass of water.

Eyes: While holding eyes open, flush thoroughly with plenty of fresh water for 15 minutes. If irritation persists or recurs seek medical attention. Skilled personnel should only undertake removal of contact lenses after an eye injury.

Skin: Remove all contaminated clothing and shoes. Dry wipe the skin. Clean the skin area with waterless hand cleaner.

Inhalation: Remove to fresh air. Lay patient down and rest. Supply oxygen and / or artificial respiration as needed. Seek medical assistance as needed.

First aid facilities: Ensure availability of clean water for eye/skin wash.

Advice to doctor: Material if aspirated into the lungs may cause chemical pneumonitis. Treat accordingly..

## MATERIAL SAFETY DATA SHEET

### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Foam, CO<sub>2</sub> and Dry Chemical Powder.  
Hazards from combustion products: Product can form flammable mixtures or can burn only when heated above flash point. However, minor contamination by hydrocarbons of higher volatility may increase the hazard  
Precautions and equipment for fire fighters: Wear self-contained breathing apparatus in enclosed areas.

### 6. ACCIDENTAL RELEASE MEASURES

Methods for clean up / collecting: Caution slippery when spilt. Stop leak if possible without risk.  
Spills should be absorb in fire retardant treated saw dust, diatomaceous earth or similar material, and dispose at a waste disposal facility in accordance with local regulations.  
Environmental precautions: Prevent discharge into drains, sewers and waterways, and from entering the soil.  
Personal precautions: Wear appropriate personal protection and ensure adequate ventilation.

### 7. HANDLING AND STORAGE

#### Conditions for safe storage

Location: Store in a cool dry area.  
Temperature conditions: 5 to 35°C  
Protection from weather: Store undercover and away from frost.  
Storage incompatibilities: A flammable atmosphere can be produced in storage tank head spaces even when stored at a temperature below the flash point. Ensure there are no ignition sources in the area immediately surrounding filling and venting operations.  
Handling: Harmful in contact with or if absorbed through the skin. Avoid inhalation of vapours. Keep containers tightly closed when not in use. Ensure containers do not leak

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards: Not available  
Engineering controls: Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.  
Personal Protective Equipment  
Respiratory protection: Wear appropriate personal protection and ensure adequate ventilation  
Use in a well ventilated area. No special requirements under ordinary conditions of use and with adequate ventilation.  
Glove type (AS2161): Wear long Impervious gloves.  
Eye protection: Wear safety glasses, which comply with local standards  
Clothing: Wear protective overalls or other suitable protective clothing such as cotton. Remove contaminated clothing as soon as possible. Launder thoroughly before reusing. For large spills or ponded areas impervious footwear is preferred.

## MATERIAL SAFETY DATA SHEET

Other: Use barrier creams to protect skin from contact with the material. Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid.
Colour:	Amber.
Odour:	Characteristic of pine resin.
Freezing temperature (°C):	n.a.
Boiling point (°C):	> 149
Melting point (°C):	n.a.
Vapour pressure:	0.5 mmHg @ 20°C
Vapour density	>2.0
Specific gravity:	Approx. 0.843 @ 25°C
Flash point (°C):	>66
Flammability limits (%):	UEL – n.a. LEL – n.a.
Solubility in water:	n.a.
pH:	n.a.
Viscosity:	n.d.

### 10. STABILITY AND REACTIVITY

Hazard of use/storage:	Stable under normal storage and application temperature.
Hazardous reactions (conditions to avoid):	Avoid heat, open flames and sources of ignition.
Materials to avoid:	Avoid contact with strong oxidants such as liquid chlorine.
Hazardous decomposition products:	None under normal storage and use temperatures. Carbon monoxide may be formed in the event of incomplete combustion.

### 11. TOXICOLOGICAL INFORMATION

#### Acute

Ingestion:	Practically non-irritating
Eye:	Practically non-irritating. (Draize score: >6 but < 15)
Skin:	Practically non-irritating. (Primary Irritation Index: >0.5 but < 3)
Inhalation:	Practically non-irritating.
<u>Chronic:</u>	There have been no reports in the literature of health effects in workers arising from long term exposure to this material and no comprehensive human studies have been conducted.

### 12. ECOLOGICAL INFORMATION

Ecology: Do not allow to absorb into soil. Prevent discharge into drains and waterways.

## MATERIAL SAFETY DATA SHEET

### 13. DISPOSAL CONSIDERATIONS

#### Disposal Methods

State/Territory authority:	Dispose in accordance with all local and governmental regulations.
Dispose – Secure landfill:	Yes.
Dispose – High temp incinerator:	No
Precautions for clean up crew:	Nitrile rubber or PVC gauntlets.

### 14. TRANSPORT INFORMATION

UN number:	n.as.
Dangerous goods class:	Combustible liquid
Subsidiary risk:	n.as.
EPG card:	n.as.
Shipping name:	n.as.
Packing group:	n.as.
Poisons schedule:	n.as.
Hazchem code:	n.as.

### 15. REGULATORY INFORMATION

Classification:	Combustible liquid.
Hazard labels:	n.as.
Risk phrase(s):	n.as.
Safety phrase(s):	n.as.

### 16. OTHER INFORMATION

#### Key:

n.a. = not applicable

n.as. = not assigned

n.d. = no data

Reason for Issue: New format based on National Code of Practice for the preparation of MSDS – 2<sup>nd</sup> edition [NOHSC:2011(2003)]. Change of company name.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. All information contained in this MSDS is as accurate and up-to-date as possible. No warranty expressed or implied is made as to its accuracy, reliability or completeness.