

# THUAN PHONG COMPANY LTD.

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QUALITY MANAGEMENT SYSTEM

# TPI-01 PARAFFIN INHIBITOR

# MATERIAL SAFETY DATA SHEET

Issue date: 03/2009

#### 1. PRODUCT AND MANUFACTURER IDENTIFICATION

Trade Name: PARAFFIN INHIBITOR TPI-01

Product Family: Paraffin / Wax Inhibitor

Product Description: Polymer based paraffin inhibitor. The action of paraffin inhibitor TPI-01 is

based on the modification of the paraffin crystal structure.

Application: Used for improves oil production by reducing paraffin deposition in tubing and

pipelines during flow of gas-liquid phase. **TPI-01** is also used as a pour point depressant for improving the flow properties and pumping ability of crude oils

in transportation operations.

Manufacturer / Supplier: THUAN PHONG Co., Ltd.

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# 2. COMPOSITION INFORMATION

Component Content (% by weight) Hazardous Classification

Naphthalene5-15%Solvent naphtha10-25%Xylene35-70%Other proprietary blends5-10%

**Total 100%** 

# 3. HAZARDS IDENTIFICATION

Highly flammable.

Inhalation of high concentrations of vapour may cause nausea or vomiting and irritation to mucous membranes and upper respiratory tract.

May cause gastrointestinal irritation nausea and vomiting if swallowed

Contact with liquid or vapour at high concentrations may cause redness and irritation of eyes.

Direct contact with skin may cause irritation.

# 4. FIRST-AID MEASURES

#### **EYE CONTACT**

Promptly wash opened eye for several minutes under running water. Get medical attention promptly if symptoms occur after washing.

ŚKIN CONTACT

Wash immediately with water and soap. Get medical attention promptly if symptoms occur after washing.

INHALATION

Remove victim immediately from source of exposure. Supply fresh air. Get medical attention.

**INGESTION** 

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Drink plenty of water. Get medical attention immediately!

#### 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA** 

Fire can be extinguished using: Water spray,  $CO_2$ , foam, extinguishing powder, sand etc. SPECIAL FIRE FIGHTING PROCEDURES

Use supplied air respirator if product is involved in a fire. Cool containers exposed to flames with water until well after the fire is out.

HAZARDOUS COMBUSTION PRODUCTS

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

PROTECTIVE MEASURES IN FIRE

Full protective equipment including suitable respiratory protection.

# 6. ACCIDENTAL RELEASE MEASURES

# PERSONAL PRECAUTIONS

Chemical safety goggles, neoprene or PVC gloves, safety boots recommended.

Wear suitable protective clothing to prevent skin contact.

PRECAUTIONS TO PROTECT ENVIRONMENT

Take appropriate steps to prevent discharges to drains, water courses or onto the ground. Contain spillages with sand or any suitable adsorbent material. This product may pose a risk to the aquatic ecosystem if released.

SPILL CLEAN UP METHODS

Restrict access to the area and stop the flow of chemical. Ventilate. Eliminate all open flames. Extinguish all ignition sources. The recommended personal protective equipment must be worn when addressing the cleanup of any spill. Absorb with an inert absorbent material and collect spillage in containers and deliver for disposal according to local regulations. Do not let washing down water contaminate ponds or waterways.

# 7. HANDLING AND STORAGE

## STORAGE PRECAUTIONS

Store away from heat, from sources of ignition and separately from oxidizers. Bulk deliveries should be stored in carbon steel tanks. Have appropriate fire extinguishers available in and near the storage area. <a href="Storage class">Storage class</a>: Flammable and toxic liquid.

#### **USAGE PRECAUTIONS**

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Do not take internally. Use with adequate ventilation. Ventilate well, avoid breathing vapors.

Keep the containers closed when not in use.

Shelf life: Use within 18 months

# 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

## PROCESS CONDITIONS

Use engineering controls to reduce air contamination to permissible exposure level (explosion-proof general and local exhaust ventilation).

HAND PROTECTION

Use protective gloves made of: rubber, neoprene, nitrile, polyethylene or PVC.

**EYE/FACE PROTECTION** 

Wear approved chemical safety goggles where eye exposure is reasonably probable.

SKIN PROTECTION

Wear protective clothing chemically resistant to this material to prevent any possibility of skin contact RESPIRATORY PROTECTION

Respiratory protection must be used if air concentration exceeds acceptable level. Use chemical respirator with appropriate organic vapor cartridge.

OTHER PROTECTION

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. No eating or drinking while working with this material. DO NOT SMOKE IN WORK AREA.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Turbid white, Thick liquid Flash point Above 35°C (ASTM D92) Pour Point < 20°C (ASTM D97)

Molecular weight Mixture Auto-ignition temperature N/A Boiling point (760 mmHg) N/A Specific gravity ( $H_2O=1$ ) 0.87 – 0.90

Solubility in water Insoluble

Solubility in organic solvents

Soluble in most hydrocarbon solvents

pH (diluted solution 5%)

Kinetic viscosity at 25°C 65 – 160 mm<sup>2</sup>/s (stoke)

## 10. STABILITY AND REACTIVITY

**STABILITY** 

Stable at normal storage temperature

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

MATERIALS TO AVOID

Contact with strong oxidizers may generate heat, fires, explosions and/or toxic vapors.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

# 11. TOXICOLOGICAL INFORMATION

**INGESTION** 

Harmful: may cause gastrointestinal distress with nausea and vomiting.

INHALATION

Harmful by inhalation: Exposure may result in eye, nose and respiratory irritation and may produce nausea, headache and dizziness. Inhalation of high concentrations of vapour may cause nausea or vomiting and irritation to mucous membranes and upper respiratory tract

SKIN CONTACT

Toxic through skin absorption. Liquid may irritate in contact with skin.

**EYE CONTACT** 

Contact with liquid or vapour at high concentrations may cause redness, irritation of eyes with reversible injury

#### 12. ECOLOGICAL INFORMATION

Harmful to aquatic organisms, may cause long-term adverse effects in the environment.

# 13. <u>DISPOSAL CONSIDERATIONS</u>

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. ALL DISPOSAL PRACTICES MUST BE IN COMPLIANCE WITH ALL LOCAL LAWS AND REGULATIONS. THE MANUFACTURE HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL.

# 14. TRANSPORT INFORMATION

DOT Classification FLAMMABLE LIQUID, N.O.S., (CONTAINS NAPTHA), 3, UN-1993, PG

III, GUIDE # 128

DOT Reportable Quantity 7340 LBS

Marine Pollutant TOXIC TO AQUATIC ORGANSISMS

#### 15. REGULATORY INFORMATION

Not applicable

# 16. OTHER/ADDITIONAL INFORMATIONS

THIS MATERIAL IS DEVELOPED AND MANUFACTURED FOR INDUSTRIAL APPLICATION ONLY.

THE INFORMATION HEREIN IS MADE BASED ON REFERENCES, INFORMATION AND DATA AVAILABLE AT PRESENT. IT MAY BE REVISED NEW INFORMATION IS AVAILABLE. THE DESCRIPTIONS HEREIN ARE FOR NORMAL HANDLING. FOR SPECIAL APPLICATIONS, MAKE SAFETY PROVISIONS SUITABLE TO THEM PRIOR TO USE.