



THUAN PHONG COMPANY LTD.

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QUALITY MANAGEMENT SYSTEM

TPS-02

SURFACTANT / DEMULSIFIER

Material Safety Data Sheet

Issue date: 12/2008

1. PRODUCT AND MANUFACTURER IDENTIFICATION

Trade Name: **TPS-02**
Product Family: Surfactant / Demulsifier
Product Description: Proprietary blend of polymeric surfactants in solvents in solvent system.
Application: Surfactant use for increase of lifting efficiency of gaslift production wells by flow improvement during the well tubing.

Manufacturer / Supplier: THUAN PHONG Co., Ltd.
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2. HAZARDS IDENTIFICATION

Flammable.
Toxic by inhalation, in contact with skin and if swallowed.
Toxic: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.

3. COMPOSITION INFORMATION

<u>Component</u>	<u>Content</u> (% by weight)	<u>Hazardous Classification</u>
Trimethylbenzenes	1 - 4%	
Mesitylene	< 2%	
Alkybenzene sulphonic acid	1 - 4%	
Napthalene	< 1%	
Alkylbenzenes	1 - 5%	
2-Ethylhexanol	1 - 4%	
Xylene	50 - 65%	
Proprietary blend of surfactants	10 - 20%	

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.

SKIN 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, CO₂, foam, extinguishing powder, sand etc.

SPECIAL FIRE FIGHTING PROCEDURES

Material Safety Data Sheet

Issue date: 12/2008

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 (CO₂)

PROTECTIVE MEASURES IN FIRE

Full protective equipment including suitable respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

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.

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in suitable adsorbent material (vermiculite or dry sand), collect spillage in containers and deliver for disposal according to local regulations.

Flush with plenty of water to clean spillage area. Do not let washing down water contaminate ponds or waterways.

7. HANDLING AND STORAGE

STORAGE PRECAUTIONS

The drums should be stored with their seals intact in ventilated conditions that avoid extremes of temperatures. Bulk deliveries should be stored in carbon steel tanks.

Storage class: Flammable and toxic liquid.

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level.

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

Physical state	Liquid
Color	Clear Yellow
Flash point	> 60°C (ASTM D92)

Material Safety Data Sheet

Issue date: 12/2008

Pour point	< -20°C (ASTM D97)
Molecular weight	Mixture
Autoignition temperature	N/A
Boiling point (760 mmHg)	N/A
Specific gravity (H ₂ O=1)	0.86 – 0.98
Solubility in water	Not miscible or difficult to mix
Solubility in organic solvents	Soluble
pH (diluted solution 5%)	4.5 - 5.0
Kinetic viscosity at 25°C	38 – 85 stoke

10. STABILITY AND REACTIVITY

STABILITY

Normally stable at typical use temperatures

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide (CO), Carbon dioxide (CO₂)

11. TOXICOLOGICAL INFORMATION

INHALATION

Toxic by inhalation: may cause drowsiness, headache and disorientation.

INGESTION

Toxic: may cause lung damage, headache nausea and vomiting, dizziness and intoxication if swallowed. Gastrointestinal symptoms, including upset stomach.

SKIN CONTACT

Liquid may irritate skin in contact with skin. Prolonged contact may cause redness, cracking of skin.

EYE CONTACT

Splashes in the eyes may cause redness irritation and smarting

12. DISPOSAL CONSIDERATIONS

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.