



TPE-246 ACID-IN-OIL EMULSIFIER

MATERIAL SAFETY DATA SHEET

Issue date: 03/2009

1. PRODUCT AND MANUFACTURER IDENTIFICATION

Trade Name: **TPE-246**
Product Family: Acid-in-Oil Emulsifier
Product Description: Is a highly concentrated belend of surfactants for use in retarded-acid stimulation operations in high temperature wells.
Application: Produces stable emulsions of variety acid mixtures and other components in the oilfield.

Manufacturer / Supplier: THUAN PHONG Co., Ltd.
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2. COMPOSITION INFORMATION

<u>Component</u>	<u>CAS No.</u>	<u>Content</u> (% by weight)
1,2,4-trimethylbenzene	95-63-6	1 – 5
Acidic solution		10 – 30
Alkaline solution		10 – 30
Naphthalene	91-20-3	< 1
Fatty alcohol		30 – 60

Total 100%

3. HAZARDS IDENTIFICATION

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

4. FIRST-AID MEASURES

EYE CONTACT

Promptly wash opened eye for at least 15 minutes under running water. Keep eyelids open. Get medical attention promptly if symptoms occur after washing.

SKIN CONTACT

Remove affected person from source of contamination. Wash the skin immediately with soap and water. 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

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.

UNUSUAL FIRE & EXPLOSION HAZARDS
No unusual fire or explosion hazards noted.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this MSDS

ENVIRONMENTAL PRECAUTIONS

Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.

SPILL CLEAN UP METHODS

Clean-up personnel should use respiratory and/or liquid contact protection. Absorb in vermiculite, dry sand or earth and place into containers. Collect and reclaim or dispose in sealed containers in licensed waste.

7. HANDLING AND STORAGE

USAGE PRECAUTIONS

Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Avoid spill, skin and eye contact.

STORAGE PRECAUTIONS

The drums should be stored, with their seals intact, in conditions that avoid extremes of temperatures. Under these conditions the shelf of the product should be approximately two years.

STORAGE CLASS

Corrosive storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Name	Std	LT – ppm	LT – mg/m ³	ST – ppm	ST – mg/m ³
1,2,4-TRIMETHYLBENZENE	WEL	25 ppm		No std.	
ETHANEDIOL	WEL		52 mg/m ³		104 mg/m ³

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Use engineering controls to reduce are contamination to permissible exposure level. Provide eyewash, quick drench.

ENGINEERING MEASURES

Explosion-proof general and local exhaust ventilation.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

HAND PROTECTION

Use protective gloves made of: Nitrile. Neoprene.

EYE PROTECTION

Use safety goggles and face shield in case of splash risk.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark Amber Liquid
Adour	Moderate
Physical data comments	Non-flammable liquid
Relative density @ 16°C	0.95 – 0.99

Vapour density (Air =1)	Approx 2.1
Vapour pressure	5.2 mmHg 30°C
pH	6.5 – 9.0
Solution	Water, diesel, kerosene, crude oil light
Viscosity @ 20°C	< 1000 cPs
Flash point	80°C

10. STABILITY AND REACTIVITY

STABILITY

No particular stability concerns.

CONDITIONS TO AVOID

Avoid contact with strong oxidizers.

HAZARDOUS POLYMERISATION

Will not polymerize.

MATERIALS TO AVOID

Strong oxidizing substances.

HAZARDOUS DECOMPOSITION PRODUCTS.

Vapour/gases/fumes of: Carbon dioxide (CO₂). Carbon monoxide (CO). Oxides of: Nitrogen.

11. TOXICOLOGICAL INFORMATION

INGESTION

Vapours may irritate throat and respiratory system and cause coughing.

INHALATION

Although there is no clear evidence, prolonged or repeated exposure may induce allergic asthma.

SKIN CONTACT

May cause serious chemical burns of the skin. May be absorbed through the skin.

EYE CONTACT

Strongly corrosive. Cause severe burns. Immediate first aid is imperative.

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

WASTE CLASS

The definitive European Waste code for this product will depend upon the final use that is made of this material.

14. TRANSPORT INFORMATION

UK ROAD LOAD

8

PROPER SHIPPING NAME:
acetic acid &

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (contains
tallow alkyl amine acetate)

UN NO. ROAD

3265

UK ROAD PACK GROUP

III

ADR CLASS NO.

8



ADR CLASS

Class 8: Corrosive substances

ADR PACK GROUP

III

ADR LABEL NO.

8

HAZCHEM CODE

2X

RID CLASS NO.

8

RID PACK GROUP	III
UN NO. SEA	3265
IMDG CLASS	8
IMDG PACK GROUP	III
MARINE POLLUTANT	No.
UN NO. AIR.	3265
AIR CLASS	8
AIR PACK GROUP	III

15. REGULATORY INFORMATION

LABELLING



CONTAINS	TALLOW ALKYL AMINE ACETATES
RISK PHRASES	R34 Cause burns R52/53 Harmful to aquatic organisms, may cause long-term
advert effects in the	aquatic environment.
SAFETY PHRASES	S24/25 Avoid contact with skin and eyes. S26 In case of contact with eye, rinse immediately with
plenty of water and	seek medical advice.
eye/face protection.	S36/37/39 Wear suitable protective clothing, gloves and
advice	S45 In case of accident or if you feel unwell, seek medical
	immediately (show label where possible).

UK REGULATORY REFERENCES

Chemicals (Hazard Information and Packaging for supply) Regulations 2002. The Control of Substances Hazardous to Health Regulations.

EU DIRECTIVES

Dangerous Substances Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

16. OTHER/ADDITIONAL INFORMATIONS

THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. SUCH INFORMATION IS, TO THE BEST OF THE COMPANY'S KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE INDICATED. HOWEVER, NO WARRANTY GUARANTEE OR REPRESENTATION IS MADE TO ITS ACCURACY, RELIABILITY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.