

HOANG · LONG

JOINT OPERATING COMPANY

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE & OF THE COMPANY

Product	Te Giac Trang Crude Oil
Company identification	Hoang Long Joint Operation Company Suite 2001, 20F Me Linh Point Tower, 2 Ngo Duc Ke St., Dist. 1, Ho Chi Minh City – Vietnam Tel: (848) 3829 9359 - Fax: (848) 3822 6106 Emergency contact Tel: (848) 3829 9359

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name CAS no. % TWA

Aromatic hydrocarbons, % mass	63231-51-6 12.4 50 ppm
n-hexane, % mass	110-54-3 1.37 20 ppm
Benzene, % mass	71-43-2 0.05 0.5 ppm
Hydrogen Sulphide, % mass	7783-06-4 0.1 10 ppm

3. PHYSICAL PROPERTIES

Viscous dark brown oil liquid with characteristic hydro carbon odour.

Does not mix with water, floats on water.

Mixes with chloroform, ether and benzene.

Viscosity at 50oC	4.062 cSt
Specific Gravity at 60/60oF	0.8291
Reid Vapour Pressure	36 kpa
Pour Point	21oC
Flash Point	-28oC
Total Acid Number	0.041 mg KOH/g
Sulfur Total	0.0513%

4. HEALTH HAZARD IDENTIFICATION

Acute health effects

- Harmful may cause lung damage if swallowed.
- Can be absorbed through skin.
- Vapours may cause dizziness or suffocation Inhalation, skin contact and/or ingestion may produce health damage.
- May produce discomfort of the eyes, respiratory tract and skin.

Chronic health effects

- May cause CANCER.
- Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

5. FIRST-AID MEASURES

Swallow

- Give a glass of water.
- Contact doctor or Poisons Center.
- Eliminate ignition sources.

Spills & Disposal

- Consider evacuation.
- Prevent from entering drains.
- Contain spillage by any means.
- Absorb with dry agent.
- Stop leak if safe to do so.
- Take off immediately all contaminated clothing.
- This material and its container must be disposed of in a safe way.
- To clean the floor and all objects contaminated by this material, use water and detergent.

Eye Contact

- Wash with running water (15minutes).
- Medical attention.

Skin Contact

- Remove contaminated clothing.
- Wash with water and soap.

Inhalation

- Fresh air.
- Rest, keep warm.
- If breathing shallow, give oxygen.
- Medical attention.

Advice to doctor

- Evaluate for respiratory distress.
- Consider lavage with cuffed tube.
- NO adrenaline.

6. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Controls

- General Exhaust Ventilation adequate.

Glass

- Chemical goggles.

Gloves

- PVC chemical resistant type.

Respirator

- Type AX Filter of sufficient capacity.

7. FIRE/EXPLOSION HAZARD

Highly flammable.

Vapours / gas heavier than air.

Toxic smoke/fumes in a fire.

8. FIRE FIGHTING

Keep containers cool.
Use foam.

9. HANDLING & STORAGE

Handling & Storage Keep locked up

- Keep container tightly closed
- Keep container in a well ventilated place
- Keep away from food, drink and animal feeding stuffs
- Keep away from source of ignition
- No smoking
- Store in cool, dry, protected area

NOTICE: This Material Safety Data Sheet is based upon data considered to be accurate at the time of its preparation.

Despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. We are not responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices or from hazards inherent in the nature of the product.

10. STABILITY AND REACTIVITY

STABILITY

Material is stable under normal conditions.

CONDITIONS TO AVOID:

Avoid heat and open flames.

MATERIALS TO AVOID:

Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition products are highly dependent on combustion conditions. A complex mixture of airborne solids, liquids and gases will evolve when this material undergoes pyrolysis or combustion. Aldehydes, Carbon Monoxide, Carbon Dioxide, Hydrogen Sulfide, Ketones and other unidentified organic compounds may be formed upon combustion.

11. TOXICOLOGICAL INFORMATION

Not available

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT SUMMARY:

There is no ecological data available for this product. However, this product is an oil. It is persistent and does not readily biodegrade.

13. DISPOSAL CONSIDERATIONS

Dispose of wastes in an approved incinerator or waste treatment/disposal site, in accordance with all applicable regulations. Do not dispose of wastes in local sewer or with normal garbage.

Empty drums should be taken for recycling, recovery, or disposal through a suitably qualified or licensed contractor.

14. TRANSPORTATION INFORMATION

AIR TRANSPORT (ICAO/IATA)

Proper Shipping Name	PETROLEUM CRUDE OIL.
UN/ID No	UN 1267
Hazard Class - Primary	3
Packing Group	II
IATA Cargo Packing Instructions	307
IATA Cargo Aircraft Limit	60 L
IATA Passenger Packing Instructions	305
IATA Passenger Aircraft Limit	10 liters

MARINE TRANSPORT (IMDG/IMO)

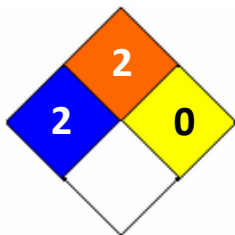
Proper Shipping Name	PETROLEUM CRUDE OIL.
UN/ID No	UN 1267
Hazard Class - Primary	3
Packing Group	II
Packing Group	P001
Limited quantify	1 liter

15. REGULATORY INFORMATION

HAZARD SYMBOLS:



NFPA RATING :



HEALTH : 2 FLAMMABILITY : 2 REACTIVITY : 0 OTHER : -

0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

16 OTHER INFORMATION

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations.