

## SAFETY DATASHEET – LIGHT FUEL OIL

### SECTION 1. IDENTIFICATION

#### 1.1 Product identifiers

**Commercial name** : Light Fuel Oil

**Other name** : Petroleum distillation

**Purpose** : Industrial fuel oil

**CAS Number** : 8002-05-9

**UN Number** : UN 1202

**1.2 Emergency phone number** : On-site NSRP: 02378738541/ Ext: 6700 or 6701

**1.3 Manufacturer and address** : Nghi Son Refinery & Petrochemical LLC  
Nghi Son Economic Zone, Hai Yen commune, Nghi Son district, Thanh Hoa province, Vietnam  
Tel: +84(0) 237 8738 540; Fax: +84(0) 237 8738 542  
Web: <https://nsrp.vn>

### SECTION 2. HAZARD IDENTIFICATION

#### 2.1 GHS classification:

Flammable liquid	: Category 1
Serious eye damage/eye irritation	: Category 2A
Carcinogenicity	: Category 1B
Specific target organ toxicity, repeated exposure	: Category 2
Specific target organ toxicity, single exposure	: Category 3
Aspiration hazard	: Category 1
Hazardous to the aquatic environment, long-term hazard	: Category 2

#### 2.2 Pictogram:



#### 2.3 Signal word: Danger

#### 2.4 Hazard statements

H224	: Extremely flammable liquid and vapor.
H319	: Causes serious eye irritation.
H350	: May cause cancer.
H304	: May be fatal if swallowed and enters airways.
H336	: May cause drowsiness or dizziness.
H373	: May cause damage to organs through prolonged or repeated exposure.
H411	: Toxic to aquatic life with long lasting effects.

#### 2.5 Prevention precaution statements

P203 : All safety precautions have been read and understood.



- P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P271 : Use only outdoors or in a well-ventilated area.
- P260 : Do not breathe vapor.
- P264 : Wash hands thoroughly after handling.
- P280 : Wear protective gloves. Wear protective clothing. Wear eye or face protection.
- P273 : Avoid release to the environment.

## 2.6 Response precautionary statements

- P318 : If expose, get the medical support.
- P319 : Get medical help if you feel unwell
- P317 : Get urgent medical support.
- P370+P378 : In case of fire: Use proper methods to extinguish.
- P304+P340 : IF INHALED: Remove person to fresh air and keep
- P301+P316 : IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
- P303+P361+P353 : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 2.7 Storage

- P405 : Store locked up.
- P403+P235 : Store in a well-ventilated place. Keep cool.

## 2.8 Disposal

- P501 : Dispose of contents and container in accordance with all local, regional, national and international regulations.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS no.	Content
Petroleum distillate	8002-05-9	75-100%

## SECTION 4. FIRST AID MEASURES

- Eye contact** : Keep eye wide and open while rinsing eye with running water of at least 15 minutes. Take off lens if it easy to do. Get immediate medical attention.
- Skin contact** : Take off immediately contaminated clothing. Rinse damaged skin with water for at least 15 minutes. Get medical attention. Thoroughly wash the contaminated clothing and shoes before reuse.
- Inhalation contact** : Remove victim to fresh air, keep comfortable breathing. Loosen up the neck, tie or belt. If stop breathing, or unusual breathing, immediately take the artificial respiration (shall be implemented by trained staff of first aid). Immediately get the medical attention.
- Ingestion contact** : Do not induce vomiting, it might cause the complication of lung unless have the instruction of medical. If vomit occurs, keep the head at low point to prevent the reflux to lung. Rinse mouth with water. Do not put anything to mouth while unconscious statement. Get medical attention immediately.



**Attention** : A supporter can get danger while implement artificial respiration. Get medical attention.

### SECTION 5: FIRE-FIGHTING MEASURES

**Suitable fire-fighting media** - **Small Fire:** Dry chemical, CO<sub>2</sub>  
- **Large Fire:** Foam, fog water for cooling.  
- **Unsuitable extinguishing media:** Avoid use water with full jet for extinguishing.

**Toxic chemical might be produced** : CO<sub>2</sub>, SO<sub>2</sub>, hydrocarbon vapors.

**Hazard can be produced while fire occurs** : Product vapor heavier than air and through the leakage area, it can be ignited while meet fire source and could reflux against to source. This product can be float on water while igniting.

**PPE, Protective media** : Stationeries extinguish equipment, Rescue truck vehicle, dry chemical powder, CO<sub>2</sub> extinguisher.  
Suit enough personal protective equipment and respirator or self apparatus respirator SCBA.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**PPE and response guidance** : Using PPE appropriately (see section 8). Isolate incident area. Evacuate unauthorized persons. Inform to emergency response team. Checking the explosive gas concentration surrounding area.

**Precautionary, prevention for environment** : Discharge into the environment must be avoided. Prevent chemical permeate in ground. If river, lake, sewer been contaminated, announce immediately to local authorities.

**Measures, hygiene materials after incident** : Avoid breathing product vapor. Evacuate staff to safe area. Remove any ignition, spark, fire source. Approach spillage from downwind. Contain spillage with non-combustible, absorbent material and place in container for disposal in accordance with local regulations (see section 13).

### SECTION 7. HANDLING AND STORAGE

**Measures and applied conditions while handle chemical** : Only import/export this product into the specific container, transportation carrier. Avoid to exposure with light. Avoid inhaling the vapor or mist. Anti-static method should be applied when import/export this material.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face after handling the material. Wear appropriate protective personal equipment when ventilation is inadequate.

Hazardous concentrations of hydrogen sulfide (H<sub>2</sub>S) gas may accumulate in the vapor space of storage vessels or other containers must strictly be followed to avoid inhalation of this acutely toxic.

**Measures and applied conditions while store chemical** : Store and use away from heat, sparks, open flame or any other ignition source. Store in original labelled container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Containers that empty or contain an amount of this material may have vapor/mist are flammable. Avoid to physical impact to the container. Do not weld, cut, drill, grind container. Use safety container. Install automatic fire alarm. Comply with safety regulations of local authorities.



## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameter: No information

### 8.2 Engineering control

Use appropriate engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Use explosion-proof ventilation equipment.

### 8.2 Individual protective measures

**Hygiene** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eyes/ Face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Wear suitable gloves tested to EN374.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical status</b>	: Liquid. [Viscous liquid.]
<b>Appearance</b>	: Opaque
<b>Color</b>	: Brown. / Black. [Dark]
<b>Odor threshold</b>	: Not available
<b>Odor</b>	: Hydrocarbon
<b>pH</b>	: 7
<b>Pour point</b>	: ≤+24°C
<b>Boiling point</b>	: 0 to 750°C (32 to 1382°F)
<b>Flash point</b>	: < 30°C
<b>Vapor ratio</b>	: Not available



**Flammability** : Not available  
**Lower and upper explosion limit/flammability limit** : Lower: 1%  
Upper: 5.9%  
**Vapor pressure** : Not available  
**Density (at 15 °C)** : ≥ 0.85 kg/L  
**Relative vapor density** : Not available  
**Solubility** : Not available  
**Auto-ignition temperature** : Not available  
**Decomposition temperature** : Not available  
**Viscosity (at 50 °C)** : ≤ 380 cSt  
**Flowtime (ISO 2431)** : Not available

#### SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.  
**Incompatible chemical** : React or incompatible with oxidizing agent.  
**Stability** : This product is stable under conditions that have been recommended.  
**Dangerous reaction** : Under normal conditions of storage and use, hazardous reactions will not occur.  
**Decomposition reaction and its products** : Decomposition products may include the following materials: sulfur oxides, Hydrogen sulphide.

#### SECTION 11. TOXICOLOGICAL INFORMATION

**Acute toxicity: via oral route** : LD50: >5000 mg/kg  
: Animal: Adult rats  
**Irritation/corrosion** : 100 mg  
: Animal: Rabbit  
**Skin irritation** : 24h 500 mg  
: Animal: Rabbit  
**Potential chronic health effects** : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.  
**Other toxicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.

#### SECTION 12. ECOLOGICAL INFORMATION

##### 1.1 Toxicity

Species	Exposure	Result
Daphnia magna	48h	EC50 0.61 mg/L marine water
Aquatic plants - Hydrilla verticillata	96h	LC50 >30mg/L marine water
Crustaceans - Octopus pallidus - Newly or recently hatched	48h	LC50 0.35 ppm marine water
Fish - Oncorhynchus shawytscha	96h	LC50 7.46 µg/L marine water

**1.2 Biodegradable level** : Not available

**1.3 Bioaccumulation** : Not available

**1.4 Mobility in soil** : Not available

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal Regulation Information** : Refer to the current legal regulations of the local country regarding waste treatment and disposal.

**Hazard Classification of Waste** : Comply with the current legal regulations of the local country regarding waste management.

**Disposal methods** : Comply with relevant legal regulations of the local country.  
 Chemicals and containers should be recovered or recycled. Waste shall be transferred to a licensed waste disposal unit. Do not discharge waste directly into the soil or water. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Incineration should only be applied if no feasible recycling options are available

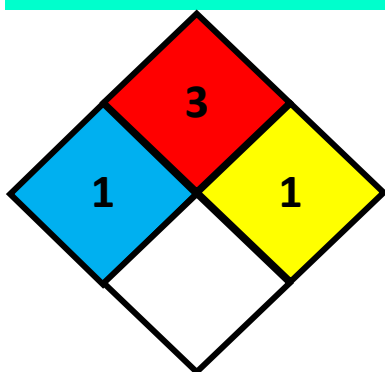
**SECTION 14. TRANSPORT INFORMATION**

UN proper shipping name	Hazard class or division	UN	Label codes	Placards
GAS OIL or DIESEL FUEL or HEATING OIL, LIGHT (flash point not more than 60°C)	3	UN 1202	3	

**SECTION 15. REGULATORY INFORMATION**

The current legal documents (including laws, decrees, circulars, and other relevant legal documents) guide the fields of chemicals, environment, fire prevention, and safety and health in the host country and relevant international regulations.

**SECTION 16. OTHER INFORMATION**



**Health hazard: 1**  
**Flammable hazard: 3**  
**Reactive hazard: 1**

**National Fire Protection Association NFPA**

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