

## Material Safety Data Sheet

|             |  |                        |
|-------------|--|------------------------|
| <b>MSDS</b> | <b>Chemical Name</b> : N-Paraffin                    | <b>MSDS No.</b> : 02   |
|             | <b>Date of Revision</b> : 15 <sup>th</sup> June 2017 | <b>Revision #</b> : 03 |

### Section 1 – Chemical Product and Company Identification

|  |   |
|--|---|
| <b>Product/Trade Name</b> : FARAPAR<br><b>Manufacturer's Name</b> : Farabi Petrochemicals<br><b>Address</b> : PO BOX 11763, Jubail<br>Industrial City, Jubail –<br>31961, KSA<br><br><b>Chemical Formula</b> : C <sub>10</sub> -C <sub>13</sub><br><b>CAS Number</b> : 93924-07-3<br><b>EC #</b> : 300-199-7 | <p style="text-align: center;"><b>Emergency Telephone no.</b></p> 1. 0096613356 5170 (Control Room)<br>2. 00966133565171 (Shift Supervisor)<br>3. 00966133589999 ( Security Direct line)<br>4. 00966133565272 (Shift Supervisor ) |
|--|---|

### Section 2 – Composition/Information on Ingredients

| Hazardous Components (Specific Chemical Identity; common names) | OSHA PEL | ACGI H TLV | Other Limit Recommended | % Optional |
|---|----------|------------|-------------------------|------------|
| Chemical Name : Normal Paraffin<br>CAS # : 93924-07-3           | N/K      | N/K        | N/A                     | N/A        |

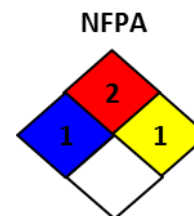
### Section 3- Hazards Identification

|                                       |  |
|---------------------------------------|--|
| <b>***** Emergency Overview *****</b> |  |
| Fire or Explosion                     | : Combustible liquid and vapor may be ignited by heat, spark, or flames.   |
| Inhalation                            | : May cause dizziness, headache, nausea, and loss of concentration.  |
| Eye                                   | : Slightly causes irritation.  |
| Skin                                  | : May cause irritation and dryness.  |
| Ingestion                             | : May cause damage to lungs.   |
| Inhalation                            | : Remove to fresh air  |
| Eye Contact                           | : Immediately flush with plenty of water for at least 15 minutes and seek medical attention if irritation persists |
| Skin Contact                          | : Remove contaminated clothing. Wash affected area with soap water. Seek medical attention if irritation develops. |
| Ingestion                             | : Do not induce vomiting due to aspiration hazard. Seek medical attention immediately.                             |

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### Section 4 – First Aid Measures



### Section 5 – Fire-Fighting Measures

|                           |   |
|---------------------------|---|
| Flammable Limits          | : 61 °C (C. Cup)  |
| Flash Point (Method Used) | : Other – DIN 51758   |
| LEL                       | : NA  |
| UEL                       | : NA  |
| Flammability              | : Combustible liquid.   |
| Auto Ignition             |   |
| Temperature               | : No data available.  |
| Products of Combustion    | : Carbon monoxide and Carbon dioxide.   |
| Fire hazards              | : Flammable in presence of open flames, sparks and heat.  |
| Fire fighting             | : Use of Dry chemical powder, water spray, fog, or foam recommended. Do not use water jets as this will scatter and spread fire. Use water spray only to cool containers until well after the fire is put out. Avoid breathing fire vapors. |

### Section 6 – Accidental Release Measures

|       |  |
|-------|--|
| Spill | : Eliminate all sources of ignition. Do not allow spilt materials to enter drains or water courses. Absorb with inert materials (dry sand or earth) and dispose appropriately. |
|-------|--|

### Section 7 – Handling and Storage

|                         |   |
|-------------------------|---|
| Handling Precautions    | : Keep away from heat, sources of ignition, and incompatibles such as oxidizing agents. |
| Storage Conditions      | : Keep container tightly closed.  |
| Regulatory Requirements | : Cool and adequately ventilated.   |

### Section 8 – Exposure Controls/Personal Protection

|                         |  |
|-------------------------|--|
| Engineering Controls    |  |
| Ventilation             | : Provide exhaust ventilation (Local & Mechanical) to keep airborne concentrations below threshold limits value. |
| Administrative Controls | : Ensure eye wash and showers are in the proximity work-station location.  |
| Protection              | : Use PVC/Rubber hand gloves, Safety glasses, Face shield, and Protective clothing.                              |

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|                                |   |
|--------------------------------|---|
| <b>Administrative Controls</b> | : Ensure eye wash and showers are in the proximity work-station location.           |
| <b>Protection</b>              | : Use PVC/Rubber hand gloves, Safety glasses, Face shield, and Protective clothing. |

### Section 9 – Physical and Chemical Properties-Typical

|                                    |                               |
|------------------------------------|-------------------------------|
| <b>Physical State</b>              | : Liquid                      |
| <b>Colour</b>                      | : +30 (Saybolt)               |
| <b>Odour</b>                       | : Hydrocarbon                 |
| <b>Mol. Weight</b>                 | : Ca. 164                     |
| <b>Melting Point</b>               | : No data available.          |
| <b>Boiling Point</b>               | : 190-240 °C                  |
| <b>Flash Point</b>                 | : 61 °C.                      |
| <b>Viscosity @ 40 °C</b>           | : <2 cSt                      |
| <b>Specific Gravity</b>            | : 0.74-0.76 @ 15 °C (water=1) |
| <b>pH (1% solution in water)</b>   | : NA                          |
| <b>Solubility in Water</b>         | : Insoluble in cold water.    |
| <b>Explosion Limit</b>             | : 0.6 – 6.5%                  |
| <b>Vapor Pressure @ 20 °C</b>      | : < 0.75 mmHg                 |
| <b>Vapor Density</b>               | : About 5                     |
| <b>Water/Oil Dist. Coefficient</b> | : Not Available               |

### Section 10 – Stability and Reactivity

|  |  |
|--|--|
| <b>Stability</b>                             | : Stable under normal temperature and pressure conditions. |
| <b>Instability Conditions</b>                | : Excess of heat, Incompatibles.                           |
| <b>Incompatibility with other substances</b> | : Reactive with oxidizing agents to avoid                  |
| <b>Hazardous decomposition products</b>      | : Fire creates CO and CO <sub>2</sub> .                    |
| <b>Hazardous Polymerization</b>              | : Stable   |

### Section 11 – Toxicological Information

|                                |   |
|--------------------------------|---|
| <b>Toxicity to animals</b>     | : Rat: LD50 (oral) - >5000 ppm; LD50 (dermal) - >3000 ppm, and LC50 – Not available.  |
| <b>Toxic effects on humans</b> | : Pneumonia may develop in 2-24 h, in case of aspiration.   |
| <b>Inhalation</b>              | : Does not cause an inhalation exposure at ambient conditions. High dosage vapors may cause headache, dizziness and drowsiness. |
| <b>Ingestion</b>               | : Similar symptoms as inhalation.   |
| <b>Skin Contact</b>            | : Prolonged or repeated contact may cause irritation to the skin.   |
| <b>Eye Contact</b>             | : May cause burning sensation.  |

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| <b>Section 12 – Ecological Information</b>  |   |
|---|---|
| Mobility  | : Spreads over the surface of the water and will slowly evaporate; Slight mobility in soil and slowly evaporates.                                     |
| Bioaccumulation   | : Possesses some potential to bioaccumulation.  |
| BOD5 and COD  | : Not Available.  |
| Biodegradation  | : Easily biodegradable  |
| Aquatic Toxicity  | : Fish (rainbow trout) – LC50 (96h) : >1000 mg/l; Daphnia (daphnia magna) – EC50 (48h) : >1000 mg/l WGK: 1 (on a scale 0-3, where 3 is most harmful). |
| <b>Section 13 – Disposal Considerations</b>   |   |
| Seal off all waste in plastic bags; pack in sealed drum for proper disposal. Empty drums shall be completely drained and properly disposed off.   |   |
| <b>Section 14 – Transportation Information</b>  |   |
| Not classified by International regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).   |   |
| <b>Section 15 – Regulatory Information</b>  |   |
| <ul style="list-style-type: none"> <li>o Risk Phrases: <ul style="list-style-type: none"> <li>o R65 Harmful: may cause lung damage if swallowed.</li> <li>o R66 Repeated exposure may cause skin dryness or cracking.</li> </ul> </li> <li>o Safety Phrase: S2, S23, S33, S29/56, S60, S62</li> </ul> |   |

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| <b>Section 16 – Other Information</b>  |
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| <p><b>GCC Emergency Contact No:</b><br/>Saudi Arabia: 998, Jordan:199, UAE: 997, Oman: 9999, Bahrain: 999</p> <p>-----</p> <p>The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.</p> <p>-----</p> <p style="text-align: center;">N/A: Not Applicable/Available;      N/E: Not Established;      N/K: Not Known</p> |