

# UNIGEL®

## Health & Safety Data Sheet

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### 1.1 – Product identifier

Product name: UNIGEL 400N Series  
 Chemical name: Gelled hydrocarbon  
 Appearance and odour: Translucent gel

#### 1.2 – Relevant identified uses of the substance or mixture and uses advised against

Manufacture of substance: Industrial use for telecommunication cables  
 Lubricants: Industrial  
 Use in laboratories: Industrial & Professional

#### 1.3 – Details of the supplier of the safety data sheet

|               |   |  |   |
|---------------|---|--|---|
| Manufacturer: | UNIGEL (UK) Limited<br>Dudley Road,<br>Tipton,<br>West Midlands<br>DY4 8EH,<br>United Kingdom | UNIGEL Inc.<br>1027 19 <sup>th</sup> Street S.W.<br>Hickory,<br>North Carolina 28602,<br>USA | UNIGEL COMPOUNDS<br>SDN BHD (442938-M)<br>(Formerly known as<br>Opcom Niaga Sdn Bhd)<br>11, Jalan Utas 15/7<br>40200 Shah Alam<br>Selangor Malaysia |
|---------------|---|--|---|

#### Contact details:

|                          |                      |                          |
|--------------------------|----------------------|--------------------------|
| Tel: +44 (0) 1273 612122 | Tel: +1 828 855 9075 | Tel: +60 (0) 3-5510 0612 |
| Fax: +44 (0) 1273 612079 | Fax: +1 828 855 9076 | Fax: +60 (0) 3-5510 0930 |
| Email: info@unigeluk.com |                      |                          |

#### 1.4 – Emergency telephone number

Telephone number: As Above (1.3)  
 Hours of operation: Mon-Fri - 8:30 – 17:00  
 Information limitation: Not applicable

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### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 – Classification of the substance or mixture

Product definition: Mixture  
 Classification according to Regulation (EC) No. 1272/2008: Not classified. This product contains highly defined base oil and is not considered to present any health hazards during normal use, although OEL for oil mist should be observed

#### 2.2 – Label elements

Signal word: No signal word  
 Hazard statements: No known significant effects or critical hazards.  
 Hazard symbol or symbols: Not applicable  
 Indication of danger: Not applicable  
 Risk phases: This product is not classified according to EU legislation  
 Safety phases: Not applicable  
 Hazardous ingredients: Not applicable  
 Supplemental label elements: Material safety data sheet (MSDS) available for professional user on request

#### 2.3 – Other hazards

Other hazards which do not result in classification: Not available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical / Common Name                                      | CAS No:     | EINECS No: | Wt %: |
|---|-------------|------------|-------|
| Mixture of severely hydro-treated and hydrocracked base oil | 72623-87-1* | 276-738-4* | 85-95 |
| Thermoplastic Elastomer                                     | 68648-89-5  |            | 5-15  |

\*This material satisfies note L of the CLP classification and can be shown to contain less than 3% DMSO extract as measured by IP346. Therefore it is not classified as carcinogenic.

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### SECTION 4: FIRST AID MEASURES

#### 4.1 – Description of first aid measures

|                             |  |
|-----------------------------|--|
| Eyes:                       | Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.   |
| Skin:                       | In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if large amount of exposure has occurred. |
| Inhalation:                 | Move exposed person to fresh air. If not breathing or if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.   |
| Ingestion:                  | Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.   |
| Protection of first-aiders: | No action shall be taken involving any personal risk or without suitable training.   |

#### 4.2 – Most important symptoms and effects, both acute and delayed

|                                 |  |
|---------------------------------|--|
| Potential acute health effects: | No known significant effects or critical hazards                         |
| Over-exposure signs/symptoms:   | Repeated skin exposure can produce local skin destruction or dermatitis. |

#### 4.3 – Indication of any immediate medical attention and special treatment needed

|                      |   |
|----------------------|---|
| Notes to physician:  | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments: | No specific treatment.  |

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### SECTION 5: FIRE FIGHTING MEASURES

#### 5.1 – Extinguishing media

Suitable extinguishing media:

- Use an extinguishing agent suitable for the surrounding fire.
- Foam (Specifically trained personnel only)
- Water fog (Specifically trained personnel only)
- Dry chemical powder
- Carbon dioxide
- Other inert gases (Subject to regulations)
- Sand or earth

Unsuitable extinguishing media:

Do not use direct water jets on the burning product; they could cause splattering and spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

#### 5.2 – Special hazards arising from the substance or mixture

Hazards from the substance or mixture:

In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products:

Carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), sulphur oxides (SO<sub>x</sub>), smoke and irritating vapours as products of incomplete combustion.

#### 5.3 – Advice for fire fighters

Special precautions for fire-fighters:

Promptly isolate the scene by removing all persons from the facility of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters:

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire fighters (including helmets, protective boots and gloves) conforming to the European standard EN 469 will provide a basic level of protection for chemical incidents.

Additional information:

Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

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### SECTION 6: ACCIDENTAL RELEASE MEASURE

#### 6.1 – Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in SECTION 8 on suitable and unsuitable materials.

#### 6.2 – Environmental precaution

Accidental spillage and release of material into the environment:

Avoid dispersal of spilt material and runoff and contact with oil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.

#### 6.3 – Methods and materials for containment and cleaning up

Small spillage:

Stop leak if without risk and wipe or absorb with oil soaking ads, sawdust, sand etc. and shovel up and place all into an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spillage:

Stop leak if without risk. Move container from spill area once the leak have been stopped. Prevent entry into sewers, watercourses or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

#### 6.4 – Reference to other sections:

- See **section 1** for emergency contact information.
- See **section 8** for information on appropriate personal protective equipment.
- See **section 13** for additional waste treatment information.

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### SECTION 7: HANDLING AND STORAGE

The information in this section contains generic advice and guidance. It shall emphasise precautions that are appropriate to the identified used referred to under **subsection 1.2** and the unique properties of the substance mixture.

#### 7.1 – Precautions for safe handling

Protective measures:

Put on appropriate personal protective equipment (See **section 4** and **section 8**)

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating and drinking areas.

#### 7.2 – Conditions for safe storage, including any incompatibilities.

Storage condition:

Store in accordance with local regulation. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see **section 10**) and elevated temperature. Keep container tightly closed and sealed until ready for use. Keep Drum/IBC/Unibag/SS-Vessel/Keg covered away from rain if left outside in open environment. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

#### 7.3 – Specific end use(s)

Industrial sector specific solution:

Not available

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 – Control parameters

\*Based on base oil used

| Product/Ingredient name   | Exposure limit values   |
|---|---|
| Lubricating oils (petroleum), C20-50, hydro-treated neutral oil-based | <b>ACGIH TLV (United States). Notes: (mineral oil)</b><br>TWA: 5 mg/m <sup>3</sup> , (Inhalable fraction) 8hour(s). |
| Lubricating oils (petroleum), C15-30, hydro-treated neutral oil-based | <b>ACGIH TLV (United States). Notes: (mineral oil)</b><br>TWA: 5 mg/m <sup>3</sup> , (Inhalable fraction) 8hour(s). |

#### 8.2 – Exposure controls

Appropriate engineering controls:

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

##### 8.2.1 – Individual protection measure

Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to mixture splashes or mist.

Skin protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling the mixture/gel products if a risk assessment indicates this is necessary. >8 hours (breakthrough time): neoprene, nitrile, Viton®.

Personal protective equipment for the body, appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by specialist before handling this product.

Respiratory protection:

None required under normal conditions.

Thermal hazard:

None required under normal conditions.

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 – Information on basic physical and chemical properties

|   |  |
|---|--|
| Appearance:                                   | Clear translucent gel  |
| Odour:  | No odour   |
| Odour threshold:                              | Not available  |
| pH:   | Not available  |
| Melting point/freezing point:                 | Not available  |
| Initial boiling point and boiling range:      | Not available  |
| Flash point: (Open cup)                       | >220°C   |
| Evaporation rate:                             | Not available  |
| Flammability (Solid, gas):                    | Not available  |
| Upper/lower flammability or explosive limits: | Not available  |
| Vapour pressure:                              | Not available  |
| Vapour density:                               | Not available  |
| Relative density:                             | 0.855 +/- 0.02 g/ml  |
| Solubility (ies):                             | Insoluble in water, soluble in petroleum solvents  |
| Partition coefficient: n-octanol/water        | Not available  |
| Auto-ignition temperature:                    | Not available  |
| Decomposition temperature:                    | Not available  |
| Viscosity:                                    | Not applicable   |
| Explosive properties:                         | Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| Oxidising properties:                         | Not available  |

**9.1 – Other information** No additional information

### SECTION 10: STABILITY AND REACTIVITY

|                                     |  |
|-------------------------------------|--|
| Reactivity:                         | No specific test data related to reactivity available for this product or its ingredients. |
| Chemical stability:                 | Stable under normal conditions   |
| Possibility of hazardous reactions: | Under normal conditions of storage and use, hazardous reaction will not occur.             |
| Conditions to avoid:                | Extreme heat   |
| Incompatible materials:             | Strong oxidising agents such as liquid chlorine, reducing agents and concentrated oxygen.  |
| Hazardous decomposition products:   | Does not decompose at ambient temperature  |



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### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 – Information on toxicological effects

##### 11.1.1 – Relevant hazard classes

Acute toxicity: Not available

Skin corrosion/irritation: Not available

Serious eye damage/irritation: Not available

Respiratory or skin sensitisation: Not available

Germ cell mutagenicity:

Carcinogenicity: All components listed in Annex VI to which Note L applies, and contained in the product, have been shown to contain less than 3% DMSO extractable as measured by IP346. Therefore it is not classified as carcinogenic.

Reproductive toxicity:

STOT-single exposure:

STOT-repeated exposure:

Aspiration hazard:

**11.1.2 – Information on likely routes of exposure** Routes of entry anticipated: Oral, Dermal, and Inhalation.

##### 11.1.3 – Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:

Ingestion:

Skin contact: Repeated skin exposure can produce local skin destruction or dermatitis.

Ingestion:

##### 11.1.4 – Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short-term potential immediate effects: Not available

Short-term potential delayed effects: Not available

Long-term potential immediate effects: Not available

Long-term potential delayed effects: Not available

Potential chronic health effects: Not available

##### 11.1.5 – Potential chronic health effects

Conclusion/Summary: Not available

General: No known significant effects or critical hazards

Carcinogenicity: Not listed as carcinogenic by OSHA, NTP or IARC

Mutagenicity: No known significant effects or critical hazards

Teratogenicity: No known significant effects or critical hazards

Developmental effects: No known significant effects or critical hazards

Fertility effects: No known significant effects or critical hazards

**11.1.6 – Other information:** Not available

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### SECTION 12: ECONOLOGICAL INFORMATION

|                                     |  |
|-------------------------------------|--|
| General:                            | In the absence of specific environmental data fro this product, the assessment is based on information for general hydrocarbon components found in lubricant mineral oils. Leaching and penetration through surface soils is generally regarded as resulting in long-term persistence. Based on chemical/physical information from the literature for this product category, no harmful effect to terrestrial or aquatic habitats would be expected. |
| Toxicity:                           | Not available  |
| Persistence and degradability:      | Not available  |
| Bio-accumulative potential:         | Not available  |
| Mobility in soil:                   | Not available  |
| Results of PBT and vPvB assessment: | Not available  |
| Other adverse effects:              | No known significant effects or critical hazards.  |

### SECTION 13: DISPOSAL CONSIDERATIONS

|                         |   |
|-------------------------|---|
| Waste treatment method: | Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulation. Waste materials should be dumped or buried in an approved industrial waste landfill. Large quantities maybe incinerated in a suitable combustion chamber. Do not empty into drains, sewers or watercourses. |
| Hazardous waste:        | Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.   |

### SECTION 14: TRANSPORT INFORMATION

|   |   |
|---|---|
| UN number:  | Not applicable                              |
| UN proper shipping name:  | Not applicable                              |
| Transport hazard class(es):   | Not classified as hazardous                 |
| Packing group:  | Not applicable                              |
| Environmental hazards:  | No  |
| Special precautions for user:                                       | Not applicable                              |
| Transport in bulk according to Annex II of Marpol and the IBC code: | Non known                                   |
| Usual shipping containers:  | Tanks, totes (IBS), fluid bag, drums & cans |

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### SECTION 15: REGULATORY INFORMATION

#### 15.1 – Safety, health and environmental regulations/legislation specific for the substance or mixture

|                                    |   |
|------------------------------------|---|
| EC Classification:                 |   |
| EC labelling (Symbol, R&S phases): | Not required  |
| OSHA (29CFR 1910.1200):            | Not classified as hazardous   |
| Hazard label data:                 | Not classified  |
| SARA Title III:                    | Contain no extremely hazardous substances                                       |
| SARA 311/312 reportable hazard:    | None  |
| SARA 313 toxic release program:    | Contains no chemicals   |
| Statutory information:             | The Health and Safety work etc Act, 1974,<br>Environmental Protection Act. 1990 |

#### 15.2 – Chemical safety assessment: Complete

(All components of this material are listed on EINECS, DSL, TSCA, METI, AICS and KECI)

### SECTION 16: OTHER INFORMATION

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