

# MATERIAL SAFETY DATA SHEET



## UNIGEL OPGW 400H Series

Revision Date: January 2024

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

#### 1.1 – Product identifier

Product name: UNIGEL OPGW 400H  
Chemical name: Gelled hydrocarbon  
Appearance and odour: Brown/ Black 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

UNIGEL (UK) Ltd. Dudley Road, Tipton, West Midlands, DY4 8EH, United Kingdom	UNIGEL (USA) Inc. 1027 19 <sup>th</sup> Street S.W Hickory, North Carolina 28602 United States of America	UG Technologies Sdn. Bhd. Lot 21, Block A, Lorong Keluli 1C, Seksyen 7 40000 Shah Alam Selangor, Malaysia
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#### Contact details:

Tel: +44 (0) 1273 612122	Tel: +1 828 855 9075	Tel: + 60 (0) 3 3359 5138
Fax: +44 (0) 1273 855717	Fax: +1 828 855 9076	
Email: info@unigel.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

### 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 available for professional user on request

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### 2.3 – Other hazards

Other hazards which do not result in classification: Prolonged or repeated skin contact sometimes may cause irritations and dermatitis. When the product is used to high temperature, direct contact of the skin and eyes with hot product may cause thermal burns.

In case of accidents involving pressurised circuits and the like, any substance may be accidentally injected under the skin, even without external damage. In this case, the victim should be brought to an hospital as soon as possible, to get specialised medical treatment.

The product is not readily biodegradable. In the case of large accidental spills, it is a potential source of soil, watercourse and groundwater pollution.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical / Common Name	CAS No:	EINECS No:	Wt %:
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7*	265-157-1*	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.

### 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.

### 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.

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

Small spillage:	Stop leak if without risk and wipe or absorb with oil soaking pads, 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 has 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.

## 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 uses 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 <b>section 4</b> and <b>section 8</b> )
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 regulations. Store in original container protected from direct sunlight, in a dry, cool and well-ventilated area, away from incompatible materials (see <b>section 10</b> ) and elevated temperature. Keep containers 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.
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### 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

Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7\*

#### Exposure limit values

**ACGIH TLV (United States). Notes: oil mist**  
TWA: 5 mg/m<sup>3</sup>, (Inhalable fraction) 8hour(s).  
**ACGIH TLV (United States). Notes: oil mist**

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STEL: 10 mg/m<sup>3</sup>

### 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. Use approved full face respirator with organic vapour filter cartridge if the recommended exposure limits are exceeded.

Thermal hazard:

None required under normal conditions.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance:	Brown/ Black 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)	>200°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
Density (25°C):	0.86 +/- 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

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### 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

### 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:	Not available
Carcinogenicity:	Based on available data, it is not classified as carcinogenic. The base oils contained in this product are severely refined and contain less than 3% DMSO extract according to IP 346 method, and are therefore not classified as carcinogens according to Regulation (EC) No 1272/2008, note L.
Reproductive toxicity:	Not available
STOT-single exposure:	Not available
STOT-repeated exposure:	Not available
Aspiration hazard:	Not available

##### 11.1.2 – Information on likely routes of exposure

Routes of entry anticipated:	Oral, Dermal, and Inhalation.
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##### 11.1.3 – Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	Not available
Ingestion:	Not available
Skin contact:	Repeated skin exposure can produce local skin destruction or dermatitis.

##### 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

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### 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

### SECTION 12: ECOLOGICAL INFORMATION

**General:** In the absence of specific environmental data from 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 regulations. Waste materials should be dumped or buried in an approved industrial waste landfill. Large quantities may be 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:	Not classified as hazardous
Special precautions for user:	Not applicable
Transport in bulk according to Annex II of Marpol and the IBC code:	None known

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Usual shipping containers:

Tanks, totes (IBS), fluid bag, drums & cans

### SECTION 15: REGULATORY INFORMATION

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

EC Classification:	Not classified
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, 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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