

# CHEMICAL PRODUCT SAFETY DATA SHEET

Prepared in accordance with GB/T 16483 and GB/T 17519.



Product name: FLUOROCARBON GEL 811-1

Issue date: March-11-2011

Revision date: October-18-2024

Version #: 08

SDS No: FLUOROCARBON GEL  
811-1

## SECTION 1 Chemical product and company identification

|                                   |   |                 |
|-----------------------------------|---|-----------------|
| <b>Product Name</b>               | <b>FLUOROCARBON GEL 811-1</b>                           |                 |
| <b>Product Code</b>               | FLUOROCARBON GEL 811-1                                  |                 |
| <b>Manufacturer/Supplier</b>      | Nye Lubricants, Inc. A Member of the FUCHS Group        |                 |
| <b>Address</b>                    | 12 Howland Road<br>Fairhaven, MA 02719<br>United States |                 |
| <b>Contact person</b>             | Not available.  |                 |
| <b>Telephone</b>                  | +1-508-996-6721   |                 |
| <b>e-mail</b>                     | sds@fuchs.com   |                 |
| <b>Emergency telephone number</b> | Americas  | +1 760 476 3961 |
|                                   | Europe  | +1 760 476 3962 |
|                                   | Asia Pacific  | +1 760 476 3960 |
|                                   | Access code   | 334212          |

### Recommended use and Limitations on use

|                        |                    |
|------------------------|--------------------|
| <b>Recommended use</b> | Lubricating Grease |
| <b>Issue date</b>      | March-11-2011      |
| <b>Revision date</b>   | October-18-2024    |
| <b>Supersedes date</b> | January-31-2023    |

## SECTION 2 Hazards identification

|                           |  |
|---------------------------|--|
| <b>Emergency overview</b> | Possible reproductive hazard. Dangerous for the environment if discharged into watercourses. |
|---------------------------|--|

### GHS hazard categories

|                              |  |            |
|------------------------------|--|------------|
| <b>Physical hazards</b>      | Not classified.  |            |
| <b>Health hazards</b>        | Reproductive toxicity                                  | Category 2 |
| <b>Environmental hazards</b> | Hazardous to the aquatic environment, acute hazard     | Category 2 |
|                              | Hazardous to the aquatic environment, long-term hazard | Category 3 |

### Label elements

#### Pictograms



#### Signal word

Warning

#### Hazard statement

|      |  |
|------|--|
| H361 | Suspected of damaging fertility or the unborn child. |
| H401 | Toxic to aquatic life.                               |
| H412 | Harmful to aquatic life with long lasting effects.   |

#### Precautionary statement

##### Prevention

|      |  |
|------|--|
| P201 | Obtain special instructions before use.                                    |
| P202 | Do not handle until all safety precautions have been read and understood.  |
| P273 | Avoid release to the environment.  |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

##### Response

|             |  |
|-------------|--|
| P308 + P313 | IF exposed or concerned: Get medical advice/attention. |
|-------------|--|

|                                      |   |
|--------------------------------------|---|
| <b>Safety storage</b>                |   |
| P405                                 | Store locked up.  |
| <b>Disposal</b>                      |   |
| P501                                 | Dispose of contents/container in accordance with local/regional/national/international regulations.                                       |
| <b>Physical and chemical hazards</b> | The product is stable and non-reactive under normal conditions of use, storage and transport. No unusual fire or explosion hazards noted. |
| <b>Health hazards</b>                | Expected to be a low ingestion hazard. Direct contact with eyes may cause temporary irritation.   |
| <b>Environmental hazards</b>         | Toxic to aquatic life. Harmful to aquatic life with long lasting effects.   |
| <b>Supplemental information</b>      | None.   |

### SECTION 3 Composition/information on ingredients

|  |                          |                   |
|--|--------------------------|-------------------|
| <b>Substance/mixture</b>   | Mixture                  |                   |
| <b>Chemical name</b>   | <b>Concentration (%)</b> | <b>CAS Number</b> |
| 癸酸与庚酸、辛酸和三羟甲基丙烷的混合酯<br>DECANOIC ACID, MIXED ESTERS WITH HEPTANOIC ACID, OCTANOIC ACID AND TRIMETHYLOLPROPANE | 60 - < 70                | 68130-53-0        |
| 苯醯胺, N-苯基-, 与2,4,4-三甲基戊烯的反应产物<br>BENZENAMINE, N-PHENYL-, REACTION PRODUCTS WITH 2,4,4-TRIMETHYLPENTENE       | 1 - < 3                  | 68411-46-1        |
| 异丁烯化苯酚磷酸酯(3:1)<br>PHENOL, ISOBUTYLENATED, PHOSPHATE (3:1)  | 1 - < 3                  | 68937-40-6        |
| 1H-咪唑-1-乙醇, 2-(8-十七基)-4,5-二氢基-<br>1H-IMIDAZOLE-1-ETHANOL, 2-(8-HEPTADECENYL)-4,5-DIHYDRO-                    | < 1                      | 95-38-5           |
| Other components below reportable levels   | 30 - < 40                |                   |

### SECTION 4 First aid measures

|   |   |
|---|---|
| <b>Inhalation</b>                                   | Call a physician if symptoms develop or persist.  |
| <b>Skin contact</b>                                 | Wash off with soap and water. Get medical attention if irritation develops and persists.  |
| <b>Eye contact</b>                                  | Get medical attention if irritation develops or persists.   |
| <b>Ingestion</b>                                    | Rinse mouth. Get medical attention if symptoms occur.   |
| <b>Most important symptoms and health effects</b>   | Direct contact with eyes may cause temporary irritation.  |
| <b>Personal protection for first-aid responders</b> | IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. |
| <b>Notes to physician</b>                           | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.  |

### SECTION 5 Fire-fighting measures

|   |   |
|---|---|
| <b>Extinguishing media</b>              | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).                                   |
| <b>Extinguishing media to avoid</b>     | Do not use water jet as an extinguisher, as this will spread the fire.                        |
| <b>Specific hazards</b>                 | During fire, gases hazardous to health may be formed.   |
| <b>Special fire fighting procedures</b> | Use water spray to cool unopened containers.  |
| <b>Protection of fire-fighters</b>      | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| <b>General fire hazards</b>             | No unusual fire or explosion hazards noted.   |
| <b>Specific methods</b>                 | Use standard firefighting procedures and consider the hazards of other involved materials.    |

### SECTION 6 Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> |  |
| <b>For non-emergency personnel</b>   | Wear appropriate personal protective equipment.  |
| <b>For emergency responders</b>  | Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |

|  |  |
|--|--|
| <b>Environmental precautions</b>                               | Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.   |
| <b>Clean-up methods and materials and containment measures</b> | Soak up with inert absorbent material. Clean contaminated surface thoroughly. Prevent product from entering drains. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. Clean up spills immediately, observing precautions in Protective Equipment section. Sweep up and shovel into suitable containers for disposal. |
| <b>Prevention of secondary hazards</b>                         | Not available.   |

## SECTION 7 Handling and storage

|                 |  |
|-----------------|--|
| <b>Handling</b> | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. |
| <b>Storage</b>  | Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).  |

## SECTION 8 Exposure controls/personal protection

|                                      |   |
|--------------------------------------|---|
| <b>Exposure limits</b>               | No exposure limits noted for ingredient(s).   |
| <b>Biological limit values</b>       | No biological exposure limits noted for the ingredient(s).  |
| <b>Monitoring methods</b>            | Follow standard monitoring procedures.  |
| <b>Engineering measures</b>          | Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. |
| <b>Personal protective equipment</b> |   |
| <b>Respiratory protection</b>        | In case of insufficient ventilation, wear suitable respiratory equipment.   |
| <b>Hand protection</b>               | Wear appropriate chemical resistant gloves.   |
| <b>Eye protection</b>                | If contact is likely, safety glasses with side shields are recommended.   |
| <b>Skin and body protection</b>      | Use of an impervious apron is recommended.  |



|                         |  |
|-------------------------|--|
| <b>Hygiene measures</b> | Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |
|-------------------------|--|

## SECTION 9 Physical and chemical properties

|  |                   |
|--|-------------------|
| <b>Appearance</b>  | Smooth            |
| <b>Physical state</b>  | Solid.            |
| <b>Form</b>  | Solid. Semi-solid |
| <b>Color</b>   | Off-white.        |
| <b>Odor</b>  | Not available.    |
| <b>pH</b>  | Not available.    |
| <b>Melting point/freezing point</b>                            | Not available.    |
| <b>Boiling point, initial boiling point, and boiling range</b> | Not available.    |
| <b>Flash point</b>   | Not available.    |
| <b>Explosive limit - lower (%)</b>                             | Not available.    |
| <b>Explosive limit - upper (%)</b>                             | Not available.    |
| <b>Vapor pressure</b>  | Not available.    |
| <b>Vapor density</b>   | Not available.    |
| <b>Relative density</b>  | Not available.    |

|  |                        |
|--|------------------------|
| Density                                    | 1.02 g/cm <sup>3</sup> |
| Solubility(ies)                            |                        |
| Solubility (water)                         | Not available.         |
| Partition coefficient<br>(n-octanol/water) | Not available.         |
| Auto-ignition temperature                  | Not available.         |
| Decomposition temperature                  | Not available.         |
| Flammability (solid, gas)                  | Not available.         |
| Other data                                 |                        |
| Explosive properties                       | Not explosive.         |
| Oxidizing properties                       | Not oxidizing.         |
| Shelf life                                 | 4 years                |

## SECTION 10 Stability and reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | The product is stable and non-reactive under normal conditions of use, storage and transport.   |
| Stability                          | Material is stable under normal conditions.   |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use.                                     |
| Conditions to avoid                | Contact with incompatible materials.  |
| Incompatible materials             | Strong acids, alkalies and oxidizing agents.  |
| Hazardous decomposition products   | Carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. Oxides of phosphorus. |

## SECTION 11 Toxicological information

|  |  |
|--|--|
| Acute toxicity   | Not available.   |
| Routes of exposure   | Not available.   |
| Symptoms   | Direct contact with eyes may cause temporary irritation.   |
| Skin corrosion/irritation                                  | Prolonged skin contact may cause temporary irritation.   |
| Serious eye damage/eye irritation                          | Direct contact with eyes may cause temporary irritation.   |
| Respiratory or skin sensitization                          |  |
| Respiratory sensitization                                  | Not a respiratory sensitizer.  |
| Skin sensitizer  | This product is not expected to cause skin sensitization.  |
| Germ cell mutagenicity                                     | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Carcinogenicity  | Not available.   |
| Toxic to reproduction                                      | Suspected of damaging fertility or the unborn child.   |
| Specific target organ toxicity following single exposure   | Not classified.  |
| Specific target organ toxicity following repeated exposure | Not classified.  |
| Aspiration hazard  | Not an aspiration hazard.  |
| Chronic effects  | Not available.   |

## SECTION 12 Ecological information

|                               |   |
|-------------------------------|---|
| Ecotoxicity                   | Toxic to aquatic life. Harmful to aquatic life with long lasting effects.   |
| Persistence and degradability | No data is available on the degradability of any ingredients in the mixture.  |
| Bioaccumulation               | No data available.  |
| Mobility in soil              | No data available for this product.   |
| Other hazardous effects       | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |

## SECTION 13 Disposal considerations

|                |  |
|----------------|--|
| Residual waste | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
|----------------|--|

|                                   |  |
|-----------------------------------|--|
| <b>Contaminated packaging</b>     | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.   |
| <b>Local disposal regulations</b> | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |

## SECTION 14 Transport information

### CNDG

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## SECTION 15 Regulatory information

### Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Not regulated.

### Regulations on the Control over Safety of Dangerous Chemicals

Not regulated.

### Provision on the Environmental Administration of New Chemical Substances

#### China Inventory of Existing Chemical Substances

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| China                | Inventory of Existing Chemical Substances in China (IECSC) | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### SPECIAL CASE

Not applicable.

### Other regulations

This safety data sheet conforms to the following laws, regulations and standards:  
Measures for the Safe Use of Chemicals in Workplaces  
General Rules for Preparation of Precautionary Labels for Chemicals (GB15258-2009 )  
Regulations on Labor Protection in Workplaces Where Toxic Products Are Used  
Packing Symbol of Dangerous Goods(GB190-2009)  
Regulations on the Control over Safety of Dangerous Chemicals  
Safety Data Sheet for Chemical Products - Content and Order of Sections (GB/T 16483-2008)  
Packing - Pictorial Marking for Handling of Goods (GB/T191-2008)

### Regulatory information

#### Stockholm Convention

Not applicable.

#### Rotterdam Convention

Not applicable.

#### Montreal Protocol

Not applicable.

#### Kyoto protocol

Not applicable.

#### Basel Convention

Not applicable.

## SECTION 16 Other information

### References

EPA: AQUIRE database  
GB6944-2012: Classification and Code of Dangerous Goods.  
GB12268-2012: List of Dangerous Goods.  
NLM: Hazardous Substances Data Base  
US. IARC Monographs on Occupational Exposures to Chemical Agents

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**Disclaimer**

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**Revision information**

This document has undergone significant changes and should be reviewed in its entirety.