



# SAFETY DATA SHEET

## FOODSAFE® PETRO-GARD® FG-46

ISO 46 H1 FOODSAFE SYNTHETIC HIGH TEMPERATURE OVEN CHAIN LUBRICANT  
NSF H-1 FOOD GRADE

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

|                                |                                                                                                                                                                                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:                  | FOODSAFE® Petro-Gard® FG-46                                                                                                                                                                                                                       |
| Synonym(s):                    | Synthetic Polyol Ester (POE) Based Lubricant                                                                                                                                                                                                      |
| Supplier contact information:  | PETROCHEM, INC.<br>333 North Randall Road<br>St. Charles, IL 60174<br>Tel: 630-513-6360<br>Fax: 630-513-8324<br>Email: <a href="mailto:info@petrochem1.com">info@petrochem1.com</a><br><a href="http://www.petrochem1.com">www.petrochem1.com</a> |
| Emergency Contact Information: | CHEMTREC (800)-424-9300 International (703) 527-3887                                                                                                                                                                                              |
| Chemical Family / Use:         | Food Grade High Temperature Oven Chain Lubricant                                                                                                                                                                                                  |
| Date Prepared:                 | 01/12/2016                                                                                                                                                                                                                                        |
| Revision Date/Version:         | 06/01/2025 Rev. 5                                                                                                                                                                                                                                 |

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Not classified as hazardous.

#### OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)  
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### 2.2. Label Elements:

Not classified as hazardous.

#### 2.3 Other information:

No other information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product contains no substances which at their given concentration, are considered to be hazardous to health.

### 4. FIRST AID MEASURES

|            |                                                                                                                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ingestion: | If swallowed, observe victim for 24 hours; seek medical attention if indicated. If vomiting occurs, keep head lower than hips to prevent aspiration.                                                    |
| Skin:      | For skin contact, wipe away excess material with dry towel. Then wash affected areas with plenty of water, and mild soap if available, for several minutes. Get medical attention if irritation occurs. |

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*Member of the American Baking Society*

|                            |                                                                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>         | If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult. |
| <b>Eyes:</b>               | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.   |
| <b>Notes to Physician:</b> | Treatment based on sound judgment of physician and individual reactions of patients.                                                   |

## 5. FIRE FIGHTING MEASURES

|                                                |                                                                                                                               |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Flash Point &amp; Method:</b>               | >280 °C (COC) 535°F                                                                                                           |
| <b>Flammable Limits in Air – Upper (%):</b>    | Maximum % by volume of vapor in air above which propagation of flame does not occur on contact with a source of ignition: N/D |
| <b>Sensitivity to Mechanical Impact (Y/N):</b> | No                                                                                                                            |
| <b>Sensitivity to Static Discharge (Y/N):</b>  | Sensitivity to static discharge is not expected.                                                                              |
| <b>Extinguishing Media:</b>                    | Water fog, carbon dioxide, foam, dry chemical                                                                                 |

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Special Firefighting Procedures:</b> | Containers can build up pressure if exposed to heat (fire). Fire involving large amounts of material should not be approached because individual containers may rupture abruptly causing "fireball" effect. Fire fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Use water spray to cool nearby containers and structures exposed to fire. |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 6. ACCIDENTAL RELEASE MEASURES

|                                                    |                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Action to be taken if material is released:</b> | Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section. Large quantity spills should be contained and pumped into drums for recovery or disposal. |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 7. HANDLING AND STORAGE

|                                                         |                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautions to be taken in handling and storage:</b> | Keep container closed when not in use. Good hygienic practices should be observed. Work clothes should be washed separately at the end of each workday. Disposable clothing should be discarded with material. For food, plant, and other industrial use only. Do not add directly to food. |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|              | HMIS | KEY          |
|--------------|------|--------------|
| Health       | 1    | 0 = Minimal  |
| Flammability | 1    | 1 = Slight   |
| Reactivity   | 0    | 2 = Moderate |
| Other        | B    | 3 = Serious  |
|              |      | 4 = Severe   |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

|                              |                                       |
|------------------------------|---------------------------------------|
| <b>Engineering Controls:</b> | None required under normal conditions |
|------------------------------|---------------------------------------|

### Personal Protective Equipment

|                                    |                                                             |
|------------------------------------|-------------------------------------------------------------|
| <b>Respiratory Protection:</b>     | None required under normal conditions.                      |
| <b>Protective Gloves:</b>          | Use gloves as a standard industrial handling procedure.     |
| <b>Eye and Face Protection:</b>    | Wear safety glasses or goggles to protect against exposure. |
| <b>Other Protection Equipment:</b> | None required.                                              |
| <b>Ventilation:</b>                | No usual ventilation required.                              |

## Exposure Guidelines

| Chemical Name           | CAS        | ACGIH TLV-TWA | ACGIH TLV-STEL | OSHA PEL-TWA | OSHA PEL-STEL | Units |
|-------------------------|------------|---------------|----------------|--------------|---------------|-------|
| Food Grade Polyol Ester | 67762-52-1 | None          | None           | None         | None          | Ppm   |
| Food Grade Polyol Ester | 11138-60-6 | None          | None           | None         | None          | Ppm   |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                |                          |
|----------------|--------------------------|
| Physical state | Liquid                   |
| Appearance     | Oil                      |
| Odor           | Mild                     |
| Color          | Clear, Yellow-Amber      |
| Odor threshold | No information available |

| Property                                     | Values                   |
|----------------------------------------------|--------------------------|
| pH                                           | Not applicable           |
| Melting point/freezing point                 | < -30° C                 |
| Boiling point                                | N/A                      |
| Flash Point Cleveland Open Cup               | >280 °C (COC) 535°F      |
| Evaporation rate                             | No information available |
| Flammability (solid, gas)                    | No information available |
| Upper/lower flammability or explosive limits | No information available |
| Vapor pressure                               | No information available |
| Vapor density                                | No information available |
| Relative density                             | No information available |
| Specific Gravity                             | < 1.0                    |
| Water solubility (20°C)                      | Insoluble in water       |
| Solubility in other solvents                 | No information available |

| Property                               | Values                   |
|----------------------------------------|--------------------------|
| Autoignition temperature               | No information available |
| Decomposition temperature              | No information available |
| Kinematic viscosity cSt @ 40°C         | 46                       |
| Dynamic viscosity                      | No information available |
| Explosive properties                   | No information available |
| Oxidizing properties                   | No information available |
| Partition coefficient: n-octanol/water | No information available |
| Other information                      |                          |
| Softening point                        | No information available |
| Molecular weight                       | No information available |
| VOC Content (%)                        | No information available |
| Density                                | 8.12 @ 25°C              |
| Bulk density                           | No information available |

## 10. STABILITY AND REACTIVITY

|                                                        |                                         |
|--------------------------------------------------------|-----------------------------------------|
| Stability:                                             | Stable                                  |
| Hazardous Polymerization:                              | Will not occur                          |
| Hazardous Thermal Decomposition / Combustion Products: | No unusual decomposition products known |
| Incompatibility (Materials to Avoid):                  | None known                              |
| Conditions to Avoid:                                   | None known                              |

## 11. TOXICOLOGICAL INFORMATION

|                           |                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Acute oral Toxicity LD50: | LD50 greater than 5,000 mg/kg body weight (RATS) (2)                                                                        |
| Skin Irritation:          | Not Available                                                                                                               |
| Eye Contact:              | Based on the review of component data available in public domain, studies indicate the components are minimally irritating. |
| Sensitization:            | Not Available                                                                                                               |

- 1 - Based on product test data available in public domain.  
 2 - Based on test data from a similar product.  
 3 - Based on test data from similar products, extrapolation from tests on similar materials, review of component data, or a combination of these sources.

## 12. ECOLOGICAL INFORMATION

|                                      |                                                          |
|--------------------------------------|----------------------------------------------------------|
| <b>Ecotoxicological Information:</b> | WGK rating: 1 (Based on data available in public domain) |
| <b>Chemical Fate Information:</b>    | No data at this time.                                    |

- 1 - Based on product test data available in public domain.  
 2 - Based on test data from a similar product.  
 3 - Based on test data from similar products, extrapolation from tests on similar materials, review of component data, or a combination of these sources.

## 13. DISPOSAL CONSIDERATIONS

|                         |                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal Method:</b> | As local regulations may vary; all waste must be disposed/recycled/reclaimed in accordance with federal, state, and local environmental control regulations. |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 14. TRANSPORT INFORMATION

### Department of Transportation Information

|                       |               |
|-----------------------|---------------|
| <b>Shipping Name:</b> | Non-regulated |
| <b>Hazard Class:</b>  | Non-regulated |
| <b>Label(s):</b>      | None          |
| <b>UN/NA Number:</b>  | None          |
| <b>Placards:</b>      | None          |

### International Transportation Classification

|                                                      |               |
|------------------------------------------------------|---------------|
| <b>IATA, International Air Transportation:</b>       | Not Available |
| <b>IMDG, International Maritime Dangerous Goods:</b> | None          |

## 15. REGULATORY INFORMATION

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

All of the components in the product are on the following Inventory lists:

|                                              |                                                                           |
|----------------------------------------------|---------------------------------------------------------------------------|
| <b>TSCA Inventory Status:</b>                | All components of this product are listed on the TSCA chemical inventory. |
| <b>EA REACH</b>                              | Pre-registered                                                            |
| <b>DSL/NDSL</b>                              | Complies                                                                  |
| <b>AICS</b>                                  | Complies                                                                  |
| <b>China</b>                                 | Complies                                                                  |
| <b>Korean (ECL) Inventory Status:</b>        | Listed on SCL                                                             |
| <b>Japanese (MITI) Inventory Status:</b>     | Not Available                                                             |
| <b>Philippines (PICCS) Inventory Status:</b> | All components are listed on PICCS                                        |
| <b>EINECS Inventory Status:</b>              | All components are listed on EINECS                                       |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

**Federal Regulations:**

|                                      |                                                                                                                                                                      |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SARA Section 302:</b>             | None found                                                                                                                                                           |
| <b>SARA (311, 312) Hazard Class:</b> | None                                                                                                                                                                 |
| <b>SARA (313) Chemicals:</b>         | THIS PRODUCT DOES NOT CONTAIN A TOXIC CHEMICAL FOR ROUTINE ANNUAL 'TOXIC CHEMICAL RELEASE REPORTING' UNDER SECTION 313 (40 CFR 372)                                  |
| <b>CERCLA Hazardous Substance:</b>   | Not a listed EHS                                                                                                                                                     |
| <b>CERCLA Reportable Quantity:</b>   | No listed reportable quantity                                                                                                                                        |
| <b>California Proposition 65:</b>    | NONE: This product does not contain detectable amounts of any chemical known to the State of California to cause cancer; nor birth defects or other productive harm. |

**EXPORT**

|                                                   |                                 |
|---------------------------------------------------|---------------------------------|
| <b>SCHDLE B/HTSUS: (Tariff Classification #):</b> | 3403990000                      |
| <b>ECCN (Export Commodity Control Number):</b>    | EAR99                           |
| <b>WHMIS Hazard Class:</b>                        | Not Available                   |
| <b>WHMIS Trade Secret:</b>                        | All components listed on EINECS |

**EC Labeling Requirements**

|                               |               |
|-------------------------------|---------------|
| <b>EC Required Symbol(s):</b> | None Required |
| <b>EC Safety Phrases:</b>     | Not Available |
| <b>EC Risk Phrases:</b>       | All Available |

**15.2 Chemical Safety Assessment**

No information available

**16. OTHER INFORMATION**

**Issue Date: 01/12/2016**

**Revision Date: 06/01/2025 Rev. 5**

**Version: 5**

**Revision Note: Not applicable**

This safety data sheet complies with the requirements of Regulation (EC) No. 1272/2008

**General Disclaimer**

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