

# Safety Data Sheet

Issue Date: 14-Sep-2021

Review Date: 09-Sept-2022

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** Purus Calcium Sulfonate Complex Moly Grease NLGI #1 and NLGI #2

### Other means of identification

**SDS #** NLGI #1, NLGI #2  
LUB044, PIN17125, PIN37125, PIN27125, PIN00578, PIN579, PIN17279, PIN37279,  
PIN27279, PIN00604, PIN00605

### Recommended use of the chemical and restrictions on use

**Recommended Use** Lubricant

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

#### **Supplier Address**

Warren Oil Company, LLC  
915 E. Jefferson Ave.  
West Memphis, AR 72301

Manufactured For:  
AIOD  
PO Box 1861  
Montrose, CO 81402  
800 313 2463 www.purusproduct.com

### Emergency telephone number

**Company Phone Number** 1-800-428-9284  
**Emergency Telephone** CHEMTREC 1-800-535-5053

## 2. HAZARDS IDENTIFICATION

**Physical state** Semi-solid to solid

### Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name  | CAS No      | Weight-% |
|--|-------------|----------|
| Paraffin oils, petroleum, catalytic dewaxed heavy    | 64742-70-7  | 50-60    |
| Mineral Oil  | Proprietary | 15-20    |
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7  | 5-10     |
| Calcium Carbonate                                    | 471-34-1    | 1-5      |
| Molybdenum Disulfide                                 | 1317-33-5   | 1-5      |
| Alkylbenzenesulfonic Acid                            | 68584-22-5  | 1-5      |
| Calcium hydroxide                                    | 1305-62-0   | 1-5      |

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## 4. FIRST AID MEASURES

**Description of first aid measures**

|                       |  |
|-----------------------|--|
| <b>General Advice</b> | Provide this SDS to medical personnel for treatment.   |
| <b>Eye Contact</b>    | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |
| <b>Skin Contact</b>   | Wash off immediately with plenty of water for at least 15 minutes.   |
| <b>Inhalation</b>     | Remove to fresh air.   |
| <b>Ingestion</b>      | Clean mouth with water and drink afterwards plenty of water.   |

**Most important symptoms and effects, both acute and delayed**

|                 |   |
|-----------------|---|
| <b>Symptoms</b> | See Section 11: Toxicological Information of this SDS for more detailed symptoms. |
|-----------------|---|

**Indication of any immediate medical attention and special treatment needed**

|                           |                        |
|---------------------------|------------------------|
| <b>Notes to Physician</b> | Treat symptomatically. |
|---------------------------|------------------------|

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Not determined.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

|                             |  |
|-----------------------------|--|
| <b>Personal Precautions</b> | Use personal protective equipment as required. |
|-----------------------------|--|

**Environmental precautions**

|                                  |   |
|----------------------------------|---|
| <b>Environmental precautions</b> | See Section 12 for additional Ecological Information. |
|----------------------------------|---|

**Methods and material for containment and cleaning up**

|                                |   |
|--------------------------------|---|
| <b>Methods for Containment</b> | Prevent further leakage or spillage if safe to do so. |
| <b>Methods for Clean-Up</b>    | Keep in suitable, closed containers for disposal.     |

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical name                     | ACGIH TLV  | OSHA PEL   | NIOSH IDLH   |
|-----------------------------------|--|--|--|
| Calcium Carbonate<br>471-34-1     | -  | -  | TWA: 10 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable dust                       |
| Molybdenum Disulfide<br>1317-33-5 | TWA: 10 mg/m <sup>3</sup> Mo inhalable particulate matter<br>TWA: 3 mg/m <sup>3</sup> Mo respirable particulate matter | TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> Mo  | IDLH: 5000 mg/m <sup>3</sup> Mo  |
| Calcium hydroxide<br>1305-62-0    | TWA: 5 mg/m <sup>3</sup>   | TWA: 15 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 5 mg/m <sup>3</sup> not in effect as a result of reconsideration | TWA: 5 mg/m <sup>3</sup>   |
| Acetic acid<br>64-19-7            | STEL: 15 ppm<br>TWA: 10 ppm  | TWA: 10 ppm<br>TWA: 25 mg/m <sup>3</sup> (vacated) TWA: 10 ppm (vacated) TWA: 25 mg/m <sup>3</sup>   | IDLH: 50 ppm<br>TWA: 10 ppm<br>TWA: 25 mg/m <sup>3</sup><br>STEL: 15 ppm<br>STEL: 37 mg/m <sup>3</sup> |

**Appropriate engineering controls**

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection** Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection** Refer to 29 CFR 1910.134 for respiratory protection requirements.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

|                                       |                      |                                |                |
|---------------------------------------|----------------------|--------------------------------|----------------|
| <b>Physical state</b>                 | Semi-solid to solid  | <b>Odor</b>                    | Mild petroleum |
| <b>Appearance</b>                     | Not determined       | <b>Odor Threshold</b>          | Not determined |
| <b>Color</b>                          | Gray/black           |                                |                |
| <b><u>Property</u></b>                | <b><u>Values</u></b> | <b><u>Remarks • Method</u></b> |                |
| <b>pH</b>                             | Not determined       |                                |                |
| <b>Melting point / freezing point</b> | Not determined       |                                |                |
| <b>Boiling point / boiling range</b>  | Not determined       |                                |                |
| <b>Flash point</b>                    | 243°C / 470°F        | Cleveland Open Cup             |                |
| <b>Evaporation Rate</b>               | Not determined       |                                |                |
| <b>Flammability (Solid, Gas)</b>      | Not determined       |                                |                |
| <b>Flammability Limit in Air</b>      |                      |                                |                |

|   |                |
|---|----------------|
| <b>Upper flammability or explosive limits</b> | Not determined |
| <b>Lower flammability or explosive limits</b> | Not determined |
| <b>Vapor Pressure</b>                         | Not determined |
| <b>Vapor Density</b>                          | Not determined |
| <b>Relative Density</b>                       | Not determined |
| <b>Water Solubility</b>                       | Not determined |
| <b>Solubility in other solvents</b>           | Not determined |
| <b>Partition Coefficient</b>                  | Not determined |
| <b>Autoignition temperature</b>               | Not determined |
| <b>Decomposition temperature</b>              | Not determined |
| <b>Kinematic viscosity</b>                    | Not determined |
| <b>Dynamic Viscosity</b>                      | Not determined |
| <b>Explosive Properties</b>                   | Not determined |
| <b>Oxidizing Properties</b>                   | Not determined |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to Avoid

Keep out of reach of children.

### Incompatible materials

None known based on information supplied.

### Hazardous decomposition products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |                          |
|---------------------|--------------------------|
| <b>Eye Contact</b>  | Avoid contact with eyes. |
| <b>Skin Contact</b> | Avoid contact with skin. |
| <b>Inhalation</b>   | Do not inhale.           |
| <b>Ingestion</b>    | Do not ingest.           |

### Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------|-----------|-------------|-----------------|
|---------------|-----------|-------------|-----------------|

|  |                       |                         |   |
|--|-----------------------|-------------------------|---|
| Paraffin oils, petroleum, catalytic<br>dewaxed heavy<br>64742-70-7 | > 15000 mg/kg ( Rat ) | > 5000 mg/kg ( Rabbit ) | - |
|--|-----------------------|-------------------------|---|

|   |                      |                         |                                      |
|---|----------------------|-------------------------|--------------------------------------|
| Mineral Oil   | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | > 5530 mg/m <sup>3</sup> ( Rat ) 4 h |
| Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7 | > 15 g/kg ( Rat )    | > 5000 mg/kg ( Rabbit ) | -                                    |
| Calcium Carbonate 471-34-1                                      | = 6450 mg/kg ( Rat ) | > 2000 mg/kg ( Rat )    | -                                    |
| Molybdenum Disulfide 1317-33-5                                  | -                    | -                       | > 2820 mg/m <sup>3</sup> ( Rat ) 4 h |
| Alkylbenzenesulfonic Acid 68584-22-5                            | = 775 mg/kg ( Rat )  | = 2000 mg/kg ( Rabbit ) | -                                    |
| Calcium hydroxide 1305-62-0                                     | = 7340 mg/kg ( Rat ) | > 2500 mg/kg ( Rat )    | -                                    |
| Acetic acid 64-19-7   | = 3310 mg/kg ( Rat ) | = 1060 mg/kg ( Rabbit ) | = 11.4 mg/L ( Rat ) 4 h              |
| Alkylated Aromatic Amine 68411-46-1                             | > 5000 mg/kg ( Rat ) | > 2000 mg/kg ( Rat )    | -                                    |

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

#### Symptoms

Please see section 4 of this SDS for symptoms.

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

### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50 7,980.40 mg/kg

ATEmix (inhalation-dust/mist) 6.95 mg/L

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic life with long lasting effects.

### Component Information

| Chemical name   | Algae/aquatic plants | Fish   | Crustacea                               |
|---|----------------------|--|---|
| Mineral Oil   |                      | 5000: 96 h Oncorhynchus mykiss mg/L LC50   | 1000: 48 h Daphnia magna mg/L EC50      |
| Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7 |                      | 5000: 96 h Oncorhynchus mykiss mg/L LC50   | 1000: 48 h Daphnia magna mg/L EC50      |
| Alkylbenzenesulfonic Acid 68584-22-5                            |                      | 3: 96 h Oncorhynchus mykiss mg/L LC50 static   | 2.9: 48 h Daphnia magna mg/L EC50       |
| Acetic acid 64-19-7   |                      | 75: 96 h Lepomis macrochirus mg/L LC50 static<br>79: 96 h Pimephales promelas mg/L LC50 static | 65: 48 h Daphnia magna mg/L EC50 Static |
| Alkylated Aromatic Amine 68411-46-1                             |                      | 100: 96 h Danio rerio mg/L LC50 static   |   |

### Persistence/Degradability

Not determined.

**Bioaccumulation**

There is no data for this product.

**Mobility**

| Chemical name                           | Partition coefficient |
|---|-----------------------|
| Alkylbenzenesulfonic Acid<br>68584-22-5 | 2                     |

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status**

| Chemical name                  | California Hazardous Waste Status |
|--------------------------------|-----------------------------------|
| Calcium hydroxide<br>1305-62-0 | Corrosive                         |

**14. TRANSPORT INFORMATION**

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**15. REGULATORY INFORMATION****International Inventories**

| Chemical name  | TSCA | TSCA Inventory Status | DSL/NDSL | EINECS/ELI NCS | ENCS | IECSC | KECL | PICCS | AICS |
|--|------|-----------------------|----------|----------------|------|-------|------|-------|------|
| Paraffin oils, petroleum, catalytic dewaxed heavy    | X    | ACTIVE                | X        | X              |      | X     | X    | X     | X    |
| Mineral Oil  | X    | ACTIVE                | X        | X              |      | X     | X    | X     | X    |
| Petroleum distillates, hydrotreated heavy paraffinic | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |
| Calcium Carbonate                                    | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |
| Molybdenum Disulfide                                 | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |
| Alkylbenzenesulfonic Acid                            | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |
| 12-Hydroxyoctadecanoic acid                          | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |
| Calcium hydroxide                                    | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |
| Acetic acid  | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |
| Alkylated Aromatic Amine                             | X    | ACTIVE                | X        | X              | X    | X     | X    | X     | X    |

**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***US Federal Regulations****CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical name          | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                   |
|------------------------|--------------------------|----------------|--|
| Acetic acid<br>64-19-7 | 5000 lb                  |                | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

| Chemical name  | New Jersey | Massachusetts | Pennsylvania |
|--|------------|---------------|--------------|
| Paraffin oils, petroleum, catalytic<br>dewaxed heavy<br>64742-70-7 |            | X             |              |
| Calcium hydroxide<br>1305-62-0                                     | X          | X             | X            |
| Acetic acid<br>64-19-7   | X          | X             | X            |



**16. OTHER INFORMATION**

|                    |                       |                     |                         |                            |
|--------------------|-----------------------|---------------------|-------------------------|----------------------------|
| <b><u>NFPA</u></b> | <b>Health Hazards</b> | <b>Flammability</b> | <b>Instability</b>      | <b>Special Hazards</b>     |
|                    | 1                     | 1                   | 0                       | Not determined             |
| <b><u>HMIS</u></b> | <b>Health Hazards</b> | <b>Flammability</b> | <b>Physical hazards</b> | <b>Personal Protection</b> |
|                    | 1                     | 1                   | 0                       | Not determined             |

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**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**