



# Safety Data Sheet

## PAO-GEAR FOOD GRADE 220

SDS Revision Date:

03/15/2024

### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product Identity**

PAO-GEAR FOOD GRADE 220

**Alternate Names**

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

**Intended use**

Food grade oil - Complies with FDA 21 CFR 178.3570

**NSF H-1 #137121**

**Application Method**

See Technical Data Sheet.

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

**Company Name**

PAN AMERICAN LUBRICANTS

2419 S. 153<sup>RD</sup> ST

OMAHA, NE 68144

USA

**Emergency**

**CHEMTREC (USA)**

(800) 424-9300

**Customer Service:**

Phone: (402) 502-1229

### 2. Hazard identification of the product

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

No applicable GHS categories.

#### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

No applicable GHS categories.

**[Prevention]:**

No GHS prevention statements

**[Response]:**

No GHS response statements

**[Storage]:**

No GHS storage statements

**[Disposal]:**

No GHS disposal statements

### 3. Composition/information on ingredients

This product is considered a mixture.

**Additional Information:** This product does not contain allergen or intolerance-inducing ingredients.

| Ingredient/Chemical Designations                                 | Weight % | GHS Classification | Notes |
|--|----------|--------------------|-------|
| Dec-1-ene, homopolymer, hydrogenated<br>CAS Number: 0068037-01-4 | 50 - 75  | Not classified     |       |
| Polybutene<br>CAS Number: 0009003-29-6                           | 25 - 50  | Not classified     |       |
| 1-Octene Homopolymer, Hydrogenated<br>CAS Number: 0070693-43-5   | 10 - 25  | Not classified     |       |

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

This formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Trade secrets are allowable per paragraph (i) of 29 CFR 1910.1200 as long as specific chemical identity and exact percentage composition are available and will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

### 4. First aid measures

#### 4.1. Description of first aid measures

|                   |   |
|-------------------|---|
| <b>General</b>    | In all cases of doubt, or when symptoms persist, seek medical attention.<br>Never give anything by mouth to an unconscious person.  |
| <b>Inhalation</b> | Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth. |
| <b>Eyes</b>       | Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.  |
| <b>Skin</b>       | Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.   |
| <b>Ingestion</b>  | If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.   |

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

**Overview** No specific symptom data available. See section 2 for further details if applicable.

### 5. Fire-fighting measures

#### 5.1. Extinguishing media

Dry chemical, foam, carbon dioxide or water spray.

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

Hazardous decomposition: None under normal use.

#### 5.3. Advice for fire-fighters

In the event of fire, wear full protective clothing and NIOSH Approved Self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Move container from fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapors.

## 6. Accidental release measures

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

Evacuate personnel to safe areas. Use personal protective equipment.

### 6.2. Environmental precautions

Do not allow spills to enter drains or watercourses.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.3. Methods and material for containment and cleaning up

Use a non-combustible material like vermiculite, sand or earth to soak up product and place in a container for later disposal.

Dike for disposal and cover with wet sand or earth.

## 7. Handling and storage

### 7.1. Precautions for safe handling

See section 2 for further details.

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

Handle containers carefully to prevent damage and spillage.

Store in a cool dry place.

Keep containers tightly closed.

Incompatible materials: Incompatible with strong oxidizing agents

See section 2 for further details.

### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls and personal protection

### 8.1. Control parameters

| CAS No.      | Ingredient                           | Exposure |                      |
|--------------|--------------------------------------|----------|----------------------|
|              |                                      | Source   | Value                |
| 0009003-29-6 | Polybutene                           | OSHA     | No Established Limit |
|              |                                      | ACGIH    | No Established Limit |
|              |                                      | NIOSH    | No Established Limit |
|              |                                      | Supplier | No Established Limit |
| 0068037-01-4 | Dec-1-ene, homopolymer, hydrogenated | OSHA     | No Established Limit |
|              |                                      | ACGIH    | No Established Limit |
|              |                                      | NIOSH    | No Established Limit |
|              |                                      | Supplier | No Established Limit |
| 0070693-43-5 | 1-Octene Homopolymer, Hydrogenated   | OSHA     | No Established Limit |

|  |  |          |                      |
|--|--|----------|----------------------|
|  |  | ACGIH    | No Established Limit |
|  |  | NIOSH    | No Established Limit |
|  |  | Supplier | No Established Limit |

### Carcinogen Data

| CAS No.      | Ingredient                           | Source | Value  |
|--------------|--------------------------------------|--------|--|
| 0009003-29-6 | Polybutene                           | OSHA   | Select Carcinogen: No  |
|              |                                      | NTP    | Known: No; Suspected: No   |
|              |                                      | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |
| 0068037-01-4 | Dec-1-ene, homopolymer, hydrogenated | OSHA   | Select Carcinogen: No  |
|              |                                      | NTP    | Known: No; Suspected: No   |
|              |                                      | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |
| 0070693-43-5 | 1-Octene Homopolymer, Hydrogenated   | OSHA   | Select Carcinogen: No  |
|              |                                      | NTP    | Known: No; Suspected: No   |
|              |                                      | IARC   | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |

## 8.2. Exposure controls

|                             |   |
|-----------------------------|---|
| <b>Respiratory</b>          | If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.   |
| <b>Eyes</b>                 | Safety glasses with side shields  |
| <b>Skin</b>                 | Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact.  |
| <b>Engineering Controls</b> | Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn. |
| <b>Other Work Practices</b> | Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.   |

## 9. Physical and chemical properties

|   |  |
|---|--|
| <b>Appearance</b>                                   | Clear and bright   |
| <b>Odor</b>   | Mild   |
| <b>Odor threshold</b>                               | Not Measured   |
| <b>pH</b>   | Not Measured   |
| <b>Melting point / freezing point</b>               | Not Measured   |
| <b>Pour Point</b>                                   | -42C   |
| <b>Initial boiling point and boiling range</b>      | Not Measured   |
| <b>Flash Point</b>                                  | 262C   |
| <b>Evaporation rate (Ether = 1)</b>                 | Not Measured   |
| <b>Flammability (solid, gas)</b>                    | Not Applicable   |
| <b>Upper/lower flammability or explosive limits</b> | <b>Lower Explosive Limit:</b> Not Measured<br><b>Upper Explosive Limit:</b> Not Measured |

|   |                 |
|---|-----------------|
| Vapor pressure (Pa)                             | Not Measured    |
| Vapor Density                                   | Not Measured    |
| Specific Gravity                                | 0.85            |
| Solubility in Water                             | Not Measured    |
| Partition coefficient n-octanol/water (Log Kow) | Not Measured    |
| Auto-ignition temperature                       | Not Measured    |
| Decomposition temperature                       | Not Measured    |
| Viscosity (cSt)                                 | 225.1 cSt @ 40C |

## 9.2. Other information

No other relevant information.

## 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

None known

### 10.5. Incompatible materials

Incompatible with strong oxidizing agents

### 10.6. Hazardous decomposition products

None under normal use.

## 11. Toxicological information

### Acute toxicity

Product is safe for intended use based on the formulation, testing results and the long history of safe consumer use.

| Ingredient  | Oral LD50, mg/kg               | Skin LD50, mg/kg               | Inhalation Vapor LD50, mg/L/4hr | Inhalation Dust/Mist LD50, mg/L/4hr | Inhalation Gas LD50, ppm |
|---|--------------------------------|--------------------------------|---------------------------------|-------------------------------------|--------------------------|
| Dec-1-ene, homopolymer, hydrogenated - (68037-01-4) | > 5,000.00, Rat - Category: NA | 3,000.00, Rabbit - Category: 5 | No data available               | 4,800.00, Rat - Category: NA        | No data available        |
| Polybutene - (9003-29-6)                            | No data available              | No data available              | No data available               | No data available                   | No data available        |
| 1-Octene Homopolymer, Hydrogenated - (70693-43-5)   | No data available              | No data available              | No data available               | No data available                   | No data available        |

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

| Classification                | Category | Hazard Description |
|-------------------------------|----------|--------------------|
| Acute toxicity (oral)         | ---      | Not Applicable     |
| Acute toxicity (dermal)       | ---      | Not Applicable     |
| Acute toxicity (inhalation)   | ---      | Not Applicable     |
| Skin corrosion/irritation     | ---      | Not Applicable     |
| Serious eye damage/irritation | ---      | Not Applicable     |
| Respiratory sensitization     | ---      | Not Applicable     |
| Skin sensitization            | ---      | Not Applicable     |
| Germ cell mutagenicity        | ---      | Not Applicable     |
| Carcinogenicity               | ---      | Not Applicable     |
| Reproductive toxicity         | ---      | Not Applicable     |
| STOT-single exposure          | ---      | Not Applicable     |
| STOT-repeated exposure        | ---      | Not Applicable     |
| Aspiration hazard             | ---      | Not Applicable     |

## 12. Ecological information

### 12.1. Toxicity

#### Aquatic Ecotoxicity

| Ingredient  | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l |
|---|-----------------------|----------------------------|-------------------|
| Dec-1-ene, homopolymer, hydrogenated - (68037-01-4) | Not Available         | Not Available              | Not Available     |
| Polybutene - (9003-29-6)                            | Not Available         | Not Available              | Not Available     |
| 1-Octene Homopolymer, Hydrogenated - (70693-43-5)   | Not Available         | Not Available              | Not Available     |

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

## 14. Transport information

|  | DOT (Domestic Surface Transportation)                            | IMO / IMDG (Ocean Transportation)                               | ICAO/IATA                        |
|--|--|---|----------------------------------|
| <b>14.1. UN number</b>   | Not Applicable   |   |                                  |
| <b>14.2. UN proper shipping name</b>   | Not Regulated  | Not Regulated   | Not Regulated                    |
| <b>14.3. Transport hazard class(es)</b>  | <b>DOT Hazard Class:</b> Not Applicable<br><b>DOT Label:</b> --- | <b>IMDG:</b> Not Applicable<br><b>Sub Class:</b> Not Applicable | <b>Air Class:</b> Not Applicable |
| <b>14.4. Packing group</b>   | Not Applicable   | Not Applicable  | Not Applicable                   |
| <b>14.5. Environmental hazards</b>   |  |   |                                  |
| <b>IMDG</b>  | Marine Pollutant: No   |   |                                  |
| <b>14.6. Special precautions for user</b>  | No further information   |   |                                  |
| <b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not Applicable   |   |                                  |

## 15. Regulatory information

|  |   |
|--|---|
| <b>Regulatory Overview</b>                               | The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.                                      |
| <b>WHMIS Classification</b>                              | Not Regulated   |
| <b>US EPA Tier II Hazards</b>                            | <p style="text-align: right;"><b>Fire:</b> No</p> <p style="text-align: right;"><b>Sudden Release of Pressure:</b> No</p> <p style="text-align: right;"><b>Reactive:</b> No</p> <p style="text-align: right;"><b>Immediate (Acute):</b> No</p> <p style="text-align: right;"><b>Delayed (Chronic):</b> No</p> |
| <b>EPCRA 311/312 Chemicals and RQs:</b>                  | (No Product Ingredients Listed)   |
| <b>EPCRA 302 Extremely Hazardous :</b>                   | (No Product Ingredients Listed)   |
| <b>EPCRA 313 Toxic Chemicals:</b>                        | (No Product Ingredients Listed)   |
| <b>Proposition 65 - Carcinogens (&gt;0.0%):</b>          | (No Product Ingredients Listed)   |
| <b>Proposition 65 - Developmental Toxins (&gt;0.0%):</b> | (No Product Ingredients Listed)   |
| <b>Proposition 65 - Female Repro Toxins (&gt;0.0%):</b>  | (No Product Ingredients Listed)   |
| <b>Proposition 65 - Male Repro Toxins (&gt;0.0%):</b>    | (No Product Ingredients Listed)   |
| <b>N.J. RTK Substances (&gt;1%):</b>                     |   |

(No Product Ingredients Listed)

**Penn RTK Substances (>1%):**

(No Product Ingredients Listed)

## 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

Not Applicable

**This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.**

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