

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

**Product Form:** Mixture**Product Name:** PureSYN Industrial EP**Product Grades:**

PureSYN Industrial EP 150 – 1313415210 (Bulk), 1313415221 (Tote), 1313415230 (Drum)

PureSYN Industrial EP 220 – 1313425210 (Bulk), 1313425221 (Tote), 1313425221 (Drum)

PureSYN Industrial EP 320 – 1313725210 (Bulk), 1313725221 (Tote), 1313725221 (Drum)

**Synonyms:** Gear Oil

### 1.2. Intended Use of the Product

Lubricant, Industrial EP Gear Oil, AGMA Grades: 2EP thru EP

### 1.3. Company Identification

North American Lubricants Company  
7337 E. Doubletree Ranch Road, Suite 180  
Scottsdale, AZ 85258  
(800)430-6252  
[www.nalube.com](http://www.nalube.com)

### 1.4. Emergency Telephone Number

**Emergency Number** : CHEMTREC: (800)424-9300 or (703)527-3887

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture (According to OSHA 29 CFR 1910.1200 HCS)

**Classification (OSHA HCS 2012)**

Not Classified

### 2.2. Label Elements (OSHA HCS 2012)

No signal word.

#### GHS-US Labeling

|  |   |  |
|--|---|--|
| <b>Hazard Pictograms (GHS-US)</b>        | : | No known significant effects or critical hazards |
| <b>Signal Word (GHS-US)</b>              | : | No signal word                                   |
| <b>Hazard Statements (GHS-US)</b>        | : | No known significant effects or critical hazards |
| <b>Precautionary Statements (GHS-US)</b> | : | No precautionary statements                      |

#### NFPA Ratings:

|               |      |
|---------------|------|
|               | HMIS |
| Health:       | 1    |
| Flammability: | 1    |
| Reactivity:   | 0    |
| Special:      | --   |

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Mixture

|   |   | %Weight |
|---|---|---------|
| P | Synthetic Industrial EP Gear Lubricant, ISO 68-680.                     | 100     |
| 1 | Solvent refined, hydrotreated paraffinic/synthetic distillate base oil. | 30-75   |
| 2 | Refined and hydroprocessed high viscosity/synthetic/residual base oil.  | 20-65   |
| 3 | Additive system containing proprietary formulated ingredients.          | 4-16    |
| 4 | Other minor additives.  | <1      |

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water or soap and water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

**Note to Physician:** In general, Emesis Induction is unnecessary in high viscosity, low volatility products (i.e. most oils and greases.)

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. NFPCA-HMIS Ratings

Health: 1 | Flammability: 1 | Reactivity: 0

### 5.2. Extinguishing Media

**Suitable Extinguishing Media:** Use water fog, foam, dry chemical or CO<sub>2</sub>

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire. Product will float and be reignited on surface of water.

### 5.3. Special Hazards Arising from the Substance or Mixture

**Fire Hazard:** Not flammable but will support combustion.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### 5.4. Advice for Firefighters

**Precautionary Measures:** Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present. Material will not burn unless preheated. Do not enter confined fire-space without full bunker gear (Helmet with face shield, bunker

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coats, gloves and rubber boots), including a positive-pressure NIOSH-Approved self-contained breathing apparatus. Cool fire exposed containers with water.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Under fire conditions, may produce fumes, smoke, oxides of carbon and hydrocarbons.

**Other Information:** Refer to Section 9 for flammability properties.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).

##### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

##### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** May burn although not readily ignitable. Use cautious judgement when cleaning up large spills.

**Large Spills** - Wear respirator and protective clothing as appropriate. Shut off source of leak. If safe to do so, dike and contain. Remove with vacuum trucks or pump to storage salvage vessels. Soak up residue with an absorbent such as clay, sand, or other suitable materials; dispose of properly. Flush area with water to remove trace residue.

**Small Spills** - Take up with an absorbent material and dispose of properly.

#### 6.4. Reference to Other Sections

See section 8, "Exposure Controls and Personal Protection". For further information refer to section 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Practice good housekeeping – spillage can be slippery on smooth surface either wet or dry.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**Aggravated Medical Cautions:** Preexisting skin and respiratory disorders may be aggravated by exposure to this product. The

International Agency For Cancer Research has determined there is sufficient evidence for the carcinogenicity in experimental animals

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exposed by contact to used motor (crankcase) oil. Handling procedures and safety precautions in the MSDS should be followed to minimize exposure to the product as used lubricating oil in gasoline or diesel fueled internal combustion engines.

### 7.3. Conditions for Safe Storage

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Store and use only in equipment/containers designed for use in this product.

### 7.4. Specific End Use(s)

Gear Oil.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Wear chemical resistant gloves and other protective clothing as required to minimize skin contact. Wear safety goggles to avoid eye contact. Test data from published literature and/or glove and clothing manufacturers indicate the best protection is provided by nitrile gloves.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.

**Consumer Exposure Controls:** Do not eat, drink or smoke during use.

| Standards | OSHA Z1               |             | ACGIH                 |                        | OTHER | (*Oil Mist, Mineral) |
|-----------|-----------------------|-------------|-----------------------|------------------------|-------|----------------------|
|           | PEL/TWA               | PEL/CEILING | TLV/TWA               | TLV/STEL               | --    |                      |
| Oil Mist  | 5 Mg/M <sup>3</sup> * | None        | 5 Mg/M <sup>3</sup> * | 10 Mg/M <sup>3</sup> * | None  |                      |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

**Physical State** : Liquid

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|   |   |
|---|---|
| Boiling Point                                 | : N/A                                     |
| Evaporation Rate                              | : N/A                                     |
| Solubility in Water                           | : Negligible                              |
| PH:   | : N/A                                     |
| Auto Ignition Temperature                     | : >320°C/608°F                            |
| Gravity, (H <sup>2</sup> O = 10.0) API @ 60°F | : 32.0 – 30.0                             |
| Percent Volatile by Volume                    | : Negligible                              |
| Appearance                                    | : Clear-yellow to darker                  |
| Vapor Pressure                                | : <0.3kPA (0.1 @ 20°C [Est])              |
| Upper/Lower Explosion/Flammability Limits     | : 1-10% V (based on Mineral Oil)          |
| Melt Point                                    | : N/A                                     |
| Pour Point                                    | : -60°F to -30°F                          |
| Vapor Density                                 | : (Air=1.0) > 1.0                         |
| Odor  | : Mild Hydrocarbon                        |
| Electrical Conductivity                       | : Not expected to be a static accumulator |
| Flash Pt., COC                                | : 520°F – 550°F                           |
| Viscosity @ 100°C, cST.                       | : 10.0 - 61.0                             |
| Viscosity @ 40°C, cST.                        | : 68 - 650                                |

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. Stability:** Stable.
- 10.2. Hazardous Polymerization:** Will not occur.
- 10.3. Conditions and Materials to Avoid:** Avoid heat, open flames and oxidizing materials.
- 10.4. Hazardous Decomposition Products:** Thermal decomposition products are highly dependent on the combustion conditions. A complex mixture of airborne solid, liquid, particulate and gases will evolve when this material undergoes pyrolysis or combustion. Carbon monoxide and other unidentified organic compounds may be formed upon combustion.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

|   |                    |                                    |                              |
|---|--------------------|------------------------------------|------------------------------|
| <b>Dermal LD50</b>  | >5.0 g/kg (Rabbit) | OSHA – Non Toxic                   | Based on similar material(s) |
| <b>Oral LD50</b>  | >5.0 g/kg (Rat)    | OSHA – Non Toxic                   | Based on similar material(s) |
| <b>Carcinogenicity Classification (Highly Refined Mineral Oil/IP346 &lt;3%:</b> |                    |                                    |                              |
| <b>IARC 3</b>   | =                  | No carcinogenicity to humans       |                              |
| <b>ACGIH A4</b>   | =                  | Unclassified as a human carcinogen |                              |
| <b>GHS/CLP</b>  | =                  | No carcinogenicity classification  |                              |
| <b>NTP</b>  | =                  | No                                 |                              |
| <b>IOSHA</b>  | =                  | No                                 |                              |

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology – General:** Toxic to aquatic life. This product is classified as an oil under section 311 of the Clean Water Act. Spills entering

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(A) surface waters of (B) any water courses or sewer's-entering/leading to surface waters that cause a sheen must be reported to the nearest local Environmental Protection Agency Office.

## 12.2. Persistence and Degradability

Not available

## 12.3. Bioaccumulative Potential

Not available

## 12.4. Mobility in Soil

Not available

## 12.5. Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Sewage Disposal Recommendations:** Do not empty into drains; dispose of this material and its container in a safe way. Do not empty into drains. Do not dispose of waste into sewer.

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations. Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Proper characterization is recommended. The product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Compliance with all appropriate Federal, State, and Local regulations should be satisfied at time of disposal. Base Oil Component is expected to be inherently biodegradable. The total mixture may be harmful to aquatic organisms.

## SECTION 14: TRANSPORT INFORMATION

**14.1. In Accordance with DOT** Not regulated for transport

**14.2. In Accordance with IMDG** Not regulated for transport

**14.3. In Accordance with IATA** Not regulated for transport

**14.4. In Accordance with TDG** Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

|                                       |   |  |
|---------------------------------------|---|--|
| <b>U.S. TSCA 8b INVENTORY:</b>        | : | All components of this product are on the US TSCA Inventory.   |
| <b>Other TSCA Regulations:</b>        | : | None known   |
| <b>SARA SECTIONS 301- 304:</b>        | : | This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances List. |
| <b>SARA SECTION 311/312 (Hazard):</b> | : | This product does not contain any chemical substance on SARA Hazard, Delayed Health Hazard List.                           |

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|                                     |   |   |
|-------------------------------------|---|---|
| <b>SARA SECTION 313:</b>            | : | This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical (Toxic Chemicals) substances listed under SARA Section 313.  |
| <b>CERCLA HAZARDOUS SUBSTANCES:</b> | : | None Known  |
| <b>FDA APPROVAL:</b>                | : | Not Applicable  |
| <b>RCRA STATUS:</b>                 | : | If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic.<br>Under RCRA it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. |

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 02/24/2021

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**GHS Full Text Phrases:**

|      |  |
|------|--|
| H304 | May be fatal if swallowed and enters airways.  |
| H402 | Harmful to aquatic life.   |
| P273 | Avoid release into the environment   |
| P501 | Dispose of contents/container in accordance with local, regional, national, and international regulations. |

**Party Responsible for the Preparation of This Document**

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. North American Lubricants Company assumes no responsibility for injury from the use of the product described herein.*

North America GHS US 2012 & WHMIS 2