

Safety Data Sheet

SECTION 1: IDENTIFICATION**1.1. Product Identifier****Product Form:** Mixture**Product Name:** PURAMAX Hydraulic GMS AW 32 LS2**Product Grades/Codes:**

PURAMAX Hydraulic GMS AW 32 LS2 – 2111352910 (Bulk)

1.2. Intended Use of the Product

Hydraulic Fluid

1.3. Company IdentificationNorth American Lubricants Company
7337 E. Doubletree Ranch Road, Suite 180
Scottsdale, AZ 85258
(800) 430-6252
www.nalube.com**1.4. Emergency Telephone Number****Emergency Number** : CHEMTREC: (800) 424-9300 or (703) 527-3887**SECTION 2: HAZARDS IDENTIFICATION****2.1. OSHA/HCS Status:**

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

2.2. Classification(s):

Not Classified

2.3. Signal Word:

No Signal Word

2.4. Symbol(s):

No Symbol

2.5. Hazard Statement(s):

No known significant effects or critical hazards.

2.6. Precautionary Statement(s):

Not Available

Hazard Rating

| | HMIS |
|---------------|------|
| Health: | 0 |
| Flammability: | 1 |
| Reactivity: | 0 |
| Personal | B |
| Protection: | |

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2.7. General Precautionary Statement(s):

Keep out of reach of children.

Read label before use.

Wash skin thoroughly after handling.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell.

2.8. Prevention Precautionary Statement(s):

Not Applicable

2.9. Response Precautionary Statement(s):

Not Applicable

2.10. Storage Precautionary Statement(s):

Store in a dry place.

Store in a closed container.

2.11. Disposal Precautionary Statement(s):

Dispose of contents/containers should be cleaned of residual product before disposal, and disposed of in accordance with all applicable laws and regulations.

2.12. Other Hazards Which Do Not Result in Classification:

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Component Listing:

| Chemical Name | Amount | CAS Number |
|--|--------|-------------|
| Distillates (petroleum), hydrotreated heavy paraffinic | 97-99% | Mixture |
| Additives | < 3% | Proprietary |

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

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).**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**Skin Contact:** Wash skin with plenty of soap and water while removing contaminated clothing and shoes.**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.**Ingestion:** Do NOT induce vomiting. Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.**Notes to Physician:** Treat symptomatically.

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4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: No known significant effects or critical hazards.

Inhalation: Overexposure may be irritating to the respiratory system.

Skin Contact: Repeated or prolonged skin contact may cause irritation.

Eye Contact: Direct contact with the eyes is likely irritating.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: No known significant effects or critical hazards.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising from the Substance or Mixture

Flammable Properties: Flash Point (Typical) Method: 214 °C (418 °F)

Autoignition Temperature: N/A

NFPA Flammability Classification: NFPA Class-IIIB combustible material.

Flammable Limits in Air: LEL: N/A | UEL: N/A

Extinguishing Media: Carbon dioxide, water fog, foam, or dry powder. Do not use water, because this product is oil based. Water or foam may cause frothing.

Fire and Explosion Hazards: Can burn in fire, releasing toxic vapors, fumes, and smoke.

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

Combustion Products: Hazardous decomposition products are oxides of carbon and nitrogen including CO and CO₂.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

Firefighting Instructions: Use water fog, foam, or dry powder. Do not use water, because this product is oil based. Water or Foam may cause frothing.

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.

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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.

Safeguards: Eliminate all sources of ignition – heat, sparks, flame, electricity, impact and friction.

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

Safeguards (Personnel): Eliminate all sources of ignition – heat, sparks, flame, electricity, impact and friction.

Initial Containment: Absorb spills with inert material. Do not allow material to enter soil or surface water.

Large Spills Procedure: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Do not flush to sewer.

Small Spills Procedure: Absorb spills with inert material.

Miscellaneous: Treat or dispose of in accordance with all federal, state, and local requirements. Incineration is preferred.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Handling (Personnel): Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.

Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of. Wash hands thoroughly after handling.

Handling (Physical Aspects): Secure container after each use. Store in a cool, dry area. Avoid contact with strong oxidizing agents.

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.

Storage Precautions: Store in a cool dry place, in a tightly closed container. Eliminate all sources of ignition – heat, sparks, flame, electricity, impact, and friction.

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7.2. Conditions for Safe Storage, Including Any Incompatibilities

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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Occupational Exposure Limits

| Material | Source | Type | mg/m ³ |
|--|--------|--------------------------|----------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic | OSHA | PEL (Mist) | 5 mg/m ³ |
| Distillates (petroleum), hydrotreated heavy paraffinic | ACGIH | TWA (Inhalable Fraction) | 5 mg/m ³ |
| Distillates (petroleum), hydrotreated heavy paraffinic | NIOSH | STEL (Mist) | 10 mg/m ³ |
| Distillates (petroleum), hydrotreated heavy paraffinic | NIOSH | TWA (Mist) | 5 mg/m ³ |

Engineering Controls: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. TLV for mineral oil is 5 mg/cubic meter.

Eye / Face Protection Requirement: When splashing of the material may occur, chemical goggles and/or a face shield are recommended.

Skin Protection Requirements: Where contact is likely, wear chemical resistant gloves.

Respiratory Protection Requirements: Under normal use conditions, with adequate ventilation, no special handling equipment is required. If mists are produced, local ventilation may be required to keep exposure below limits.

General Comments: Always observe good personal hygiene practices. Wash hands and other exposed skin areas with plenty of mild soap and water before eating, drinking, smoking, etc.

8.2. 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.

8.3. 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: Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection.



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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on Basic Physical and Chemical Properties**

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|--------------------------|--------------------------------------|
| Form | Liquid |
| Odor | Mild Petroleum |
| Vapor Pressure | Less than 0.1 mm Hg at 68 °F (20 °C) |
| Vapor Density | Heavier than air (Air = 1) |
| Autoignition Temperature | Not Available |
| Specific Gravity | .8644 Approximately |
| Density | 7.20/lb Approximately |
| Melting PT. | Not Determined |
| Viscosity | 32 cST at 40 °C |
| Flash PT. | 418 °F |

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.
- 10.5. Incompatible Materials:** Strong oxidizing agents.
- 10.6. Hazardous Decomposition Products:** Hazardous decomposition not expected to occur.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on Toxicological Effects - Product**

General Information: Based on data on the components and the toxicology of similar materials.

Routes of Entry: Skin, eyes, ingestion, and inhalation.

11.2 Acute Exposure:

Eye Irritation: Not expected to cause eye irritation. Based on data from components or similar materials. Vapors may cause irritation.

Skin irritation: Slightly irritating based on data from components or similar materials. Prolonged or repeated skin contact without proper hygiene may result in skin disorders such as acne.

Respiratory Irritation: Based on data from components and similar materials, inhalation of vapors or mists may cause irritation.

Dermal Toxicity: Expected to be of low toxicity: LD50 > 5000 mg/kg, Rabbit

Oral Toxicity: Expected to be of low toxicity: LD50 > 5000 mg/kg, Rat

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Inhalation Toxicity: Based on data from components and similar materials, product is not considered to be an inhalation hazard under normal conditions of use.

Sensitization: Component concentrations in this formulation would not be expected to cause skin sensitization, based on tests of the components or similar formulations.

11.3 Chronic Exposure:

Chronic Toxicity: No data available to indicate product or components present at greater than 1% are chronic health hazards.

Carcinogenicity: Product contains mineral and/or synthetic oils shown to be noncarcinogenic in laboratory studies with the same or similar materials. Mineral and synthetic oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC). Other components are not known to be associated with carcinogenic effects.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive Toxicity: No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.

Teratogenicity: No data available to indicate either product or components present at greater than 0.1% that may cause birth defects.

Additional Information: No other health hazards known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Environmental Hazards:

Ecological Toxicity data has not been determined specifically for this product. The ecological toxicity hazard is based on an evaluation of data for the components or a similar material. This material is expected to be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

12.2 Environmental Fate

This material is not expected to be readily biodegradable. The biodegradability of this material is based on an evaluation of data for the components or a similar material. This product contains components which may be persistent in the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste Treatment Methods

Avoid disposal into waste water treatment facilities. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements. This product, if discarded, is not considered a hazardous waste.

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 |

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| SECTION 15: REGULATORY INFORMATION |
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15.1. Regulatory Lists Searched:

- | | |
|-----------------------------------|-----------------------------------|
| 01 = CANADIAN DISCLOSURE LIST | 02 = CERLA HAZARDOUS Substances |
| 03 = TITLE V OF THE CLEAN AIR ACT | 04 = SC Toxic Air Pollutants List |
| 05 = SARA TITLE III – SECTION 313 | 06 = SARA Title III – Section 312 |
| 07 = CA PROPOSITION 65 | 08 = RCRA Hazardous Substances |

15.2. OSHA Hazard Communication Standard:

The classification of this material is based on OSHA HCS 2012 criteria.

| | |
|--------------------------------|--|
| United States Inventory (TSCA) | All components are listed or exempted. |
| Canada Inventory | All components are listed or exempted. |
| Europe Inventory | All components are listed or exempted. |
| Japan Inventory (ENCS) | All components are listed or exempted. |
| Australia Inventory (AICS) | All components are listed or exempted. |
| Korea Inventory (KECI) | All components are listed or exempted. |
| China Inventory (IECSC) | All components are listed or exempted. |
| Philippines Inventory (PICCS) | All components are listed or exempted. |

SARA 302: No chemicals in this material are subject to reporting requirements of SARA Title III, Section 302.

CERCLA: This material is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). Contact local authorities to determine if other reporting requirements apply.

SARA (313) Toxic Release Inventory: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

State and Community Right-To-Know Regulations: The following component(s) are identified on the regulatory lists below:

Hydrotreated Heavy Paraffinic Petroleum Distillates;

| | |
|---|--|
| Louisiana Right-To-Know: Not Listed | Michigan Critical Materials Register List: Not Listed |
| California Proposition 65: Not Listed | Massachusetts Extraordinarily Hazardous Substances: Not Listed |
| New Jersey Right-To-Know: Not Listed | California – Regulated Carcinogens: Not Listed |
| Pennsylvania Right-To-Know: Not Listed | Pennsylvania RTK – Special Hazardous Substances: Not Listed |
| Massachusetts Right-To-Know: Not Listed | New Jersey – Special Hazardous Substances: Not Listed |
| Florida Substance List: Not Listed | New Jersey – Environmental Hazardous Substances List: Not Listed |
| Rhode Island Right-To-Know: Not Listed | Illinois – Toxic Air Contaminants Present |
| | New York/Part 597/List of Hazardous Substances: Not Listed |

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

Revision Date : 10/07/2020
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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.

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