



# Synthetic Non-Conductive AW ISO 46 Hydraulic Oil

## Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
Issue date: 7/9/2025 Version: 1.0

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : Synthetic Non-Conductive AW ISO 46 Hydraulic Oil  
Part Number : 11128

#### 1.2. Other means of identification

No additional information available

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

Use of the substance/mixture : Lubricating oil

#### 1.4. Supplier's details

Lucas Oil Products, Inc.  
3199 Harrison Way NW  
Corydon, IN, 47112  
USA  
T 800-342-2512  
[sds@lucasoil.com](mailto:sds@lucasoil.com) - [www.LucasOil.com](http://www.LucasOil.com)

#### 1.5. Emergency phone number

Emergency number : For Chemical Emergency Call ChemTel 24hr/day 7days/week  
Within USA, Canada, Puerto Rico and US Virgin Islands: 1-800-255-3924  
International: 1-813-248-0585  
(collect calls accepted)

### SECTION 2 Hazard Identification

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

##### GHS US classification

Not classified

#### 2.2. Label elements

##### GHS US labeling

No labeling applicable

#### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

#### 2.4. Hazards not otherwise classified

No additional information available

#### 2.5. Unknown acute toxicity

No additional information available

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### SECTION 3 Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name                                                                 | Product identifier  | %         | GHS US classification |
|----------------------------------------------------------------------|---------------------|-----------|-----------------------|
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | CAS-No.: 72623-87-1 | 80 - 100* | Asp. Tox. 1, H304     |

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

### SECTION 4 First aid measures

#### 4.1. Description of necessary first-aid measures

|                                               |                                                                                   |
|-----------------------------------------------|-----------------------------------------------------------------------------------|
| First-aid measures general                    | : If you feel unwell, seek medical advice.                                        |
| First-aid measures after inhalation           | : Remove person to fresh air and keep comfortable for breathing.                  |
| First-aid measures after skin contact         | : Wash skin with plenty of water.                                                 |
| First-aid measures after eye contact          | : Rinse eyes with water as a precaution.                                          |
| First-aid measures after ingestion            | : Call a poison center/doctor/physician if you feel unwell.                       |
| Personal protection for first-aid responders. | : First aid workers will be equipped with suitable personal protective equipment. |

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

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Symptoms/effects after inhalation   | : None under normal conditions. |
| Symptoms/effects after skin contact | : None under normal conditions. |
| Symptoms/effects after eye contact  | : None under normal conditions. |
| Symptoms/effects after ingestion    | : None under normal conditions. |

#### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

|                                   |                          |
|-----------------------------------|--------------------------|
| Other medical advice or treatment | : Treat symptomatically. |
|-----------------------------------|--------------------------|

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

#### 5.2. Specific hazards arising from the chemical

|                                                  |                                |
|--------------------------------------------------|--------------------------------|
| Fire hazard                                      | : No fire hazard.              |
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

#### 5.3. Special protective equipment and precautions for fire-fighters

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

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### SECTION 6 Accidental release measures

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

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

##### For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area.

##### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.  
Environmental precautions : Avoid release to the environment.

#### 6.2. Methods and materials for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 13

### SECTION 7 Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.  
Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

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

Technical measures : Keep in a cool, well-ventilated place away from heat.  
Storage conditions : Keep cool. Protect from sunlight.  
Packaging materials : Store always product in container of same material as original container.

### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures, such as personal protective equipment

##### Personal protective equipment:

Wear recommended personal protective equipment.

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|                                                                          |
|--------------------------------------------------------------------------|
| <b>Hand protection:</b>                                                  |
| Protective gloves                                                        |
| <b>Eye protection:</b>                                                   |
| Safety glasses                                                           |
| <b>Skin and body protection:</b>                                         |
| Wear suitable protective clothing                                        |
| <b>Respiratory protection:</b>                                           |
| In case of insufficient ventilation, wear suitable respiratory equipment |

### Personal protective equipment symbol(s):



## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

|                                                 |                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical state                                  | : Liquid                                                                                                                                                                                                                                                                                |
| Color                                           | : Mixture contains one or more component(s) which have the following color(s):<br>Light yellow Colourless Colourless to light yellow                                                                                                                                                    |
| Odor                                            | : There may be no odor warning properties, odor is subjective and inadequate to warn of overexposure.<br>Mixture contains one or more component(s) which have the following odor:<br>Mild odour Irritating/pungent odour Aromatic odour Pleasant odour Petroleum-like odour Sweet odour |
| Odor threshold                                  | : No data available                                                                                                                                                                                                                                                                     |
| pH                                              | : No data available                                                                                                                                                                                                                                                                     |
| Melting point                                   | : Not applicable                                                                                                                                                                                                                                                                        |
| Freezing point                                  | : No data available                                                                                                                                                                                                                                                                     |
| Boiling point                                   | : No data available                                                                                                                                                                                                                                                                     |
| Flash point                                     | : > 200 °C                                                                                                                                                                                                                                                                              |
| Flammability (solid, gas)                       | : Not applicable.                                                                                                                                                                                                                                                                       |
| Vapor pressure                                  | : No data available                                                                                                                                                                                                                                                                     |
| Relative vapor density at 20°C                  | : No data available                                                                                                                                                                                                                                                                     |
| Relative density                                | : 0.843                                                                                                                                                                                                                                                                                 |
| Density                                         | : 7.043 lb/gal                                                                                                                                                                                                                                                                          |
| Solubility                                      | : No data available                                                                                                                                                                                                                                                                     |
| Partition coefficient n-octanol/water (Log Pow) | : No data available                                                                                                                                                                                                                                                                     |
| Auto-ignition temperature                       | : No data available                                                                                                                                                                                                                                                                     |
| Decomposition temperature                       | : No data available                                                                                                                                                                                                                                                                     |
| Viscosity, kinematic                            | : 44 mm²/s                                                                                                                                                                                                                                                                              |
| Explosion limits                                | : No data available                                                                                                                                                                                                                                                                     |
| Particle characteristics                        | : Particle size : Not Applicable                                                                                                                                                                                                                                                        |

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

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### SECTION 10 Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11 Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : No data available  
Acute toxicity (dermal) : No data available  
Acute toxicity (inhalation) : No data available

| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1) |                                                                                           |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| LD50 oral rat                                                                     | > 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 oral                                                                         | 5000 mg/kg                                                                                |
| LD50 dermal rabbit                                                                | > 2000 mg/kg Source: IUCLID                                                               |
| LD50 dermal                                                                       | 5000 mg/kg                                                                                |
| ATE US (oral)                                                                     | 5000 mg/kg body weight                                                                    |
| ATE US (dermal)                                                                   | 5000 mg/kg body weight                                                                    |

Skin corrosion/irritation : No data available

Serious eye damage/irritation : No data available

Respiratory or skin sensitization : No data available

Germ cell mutagenicity : No data available

Carcinogenicity : No data available

Reproductive toxicity : No data available

STOT-single exposure : No data available

STOT-repeated exposure : No data available

| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1) |                                                                                                                                          |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| LOAEL (oral, rat, 90 days)                                                        | 125 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) |

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| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1) |                                                                                                         |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| NOAEC (inhalation, rat, dust/mist/fume, 90 days)                                  | > 0.98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study) |

Aspiration hazard : No data available

| Synthetic Non-Conductive AW ISO 46 Hydraulic Oil                                  |          |
|-----------------------------------------------------------------------------------|----------|
| Viscosity, kinematic                                                              | 44 mm²/s |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1) |          |
| Viscosity, kinematic                                                              | 12 mm²/s |
| Hydrocarbon                                                                       | Yes      |

Symptoms/effects after inhalation : None under normal conditions.  
Symptoms/effects after skin contact : None under normal conditions.  
Symptoms/effects after eye contact : None under normal conditions.  
Symptoms/effects after ingestion : None under normal conditions.

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.  
Hazardous to the aquatic environment, short-term (acute) : No data available  
Hazardous to the aquatic environment, long-term (chronic) : No data available

| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1) |                            |
|-----------------------------------------------------------------------------------|----------------------------|
| LC50 - Fish [1]                                                                   | > 5000 mg/l Source: IUCLID |
| EC50 - Crustacea [1]                                                              | > 1000 mg/l Source: IUCLID |

### 12.2. Persistence and degradability

| Synthetic Non-Conductive AW ISO 46 Hydraulic Oil                                  |                        |
|-----------------------------------------------------------------------------------|------------------------|
| Persistence and degradability                                                     | Not rapidly degradable |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1) |                        |
| Persistence and degradability                                                     | Not rapidly degradable |

### 12.3. Bioaccumulative potential

| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1) |                        |
|-----------------------------------------------------------------------------------|------------------------|
| Partition coefficient n-octanol/water (Log Pow)                                   | 3.9 – 6 Source: IUCLID |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Ozone : No data available  
Fluorinated greenhouse gases : No

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### SECTION 13 Disposal considerations

|                                            |                                                                                               |
|--------------------------------------------|-----------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.                                                             |

### SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

| DOT                                     | TDG           | IMDG          | IATA          |
|-----------------------------------------|---------------|---------------|---------------|
| <b>14.1. UN number</b>                  |               |               |               |
| Not regulated for transport             |               |               |               |
| <b>14.2. Proper Shipping Name</b>       |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |

#### 14.6. Transport in bulk

Not applicable

#### 14.7. Special precautions for user

##### DOT

Not regulated

##### TDG

Not regulated

##### IMDG

Not regulated

##### IATA

Not regulated

### SECTION 15 Regulatory information

#### 15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### CANADA

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. State regulations



#### WARNING:

This product can expose you to Cumene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Issue date : 7/9/2025

### Full text of hazard classes and H-statements

|      |                                              |
|------|----------------------------------------------|
| H304 | May be fatal if swallowed and enters airways |
|------|----------------------------------------------|

Safety Data Sheet (SDS), USA

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.