



SAFETY DATA SHEET

SDS: 8430

8430 MONOLEC® GFS ENGINE OIL

Issuing Date 04-24-2012

Revision Date 04-01-2020

Revision Number 5

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier**Product Name** 8430 MONOLEC® GFS ENGINE OIL**Other means of identification****Synonyms** No information available**Recommended use of the chemical and restrictions on use****Identified uses** Lubricant**Uses advised against** Consumer use**Details of the supplier of the safety data sheet****Manufacturer**Lubrication Engineers Inc.
1919 E. Tulsa
Wichita, KS 67216
USA
800-537-7683**Emergency Telephone Number**CHEMTREC: 1-800-424-9300 (NORTH AMERICA)
+1-703-527-3887 (INTERNATIONAL)

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2. HAZARDS IDENTIFICATION**Classification****OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements**Emergency Overview****Signal Word**

None

Hazard Statements

None

The product contains no substances which at their given concentration, are considered to be hazardous to health

appearance red**Physical state** liquid**Odor** Hydrocarbon-like**Precautionary Statements - Prevention**

None.

Response

None.

Eyes

None.

Skin

None.

Inhalation

None.

Ingestion

None.

Fire

None.

Spill

None.

Storage

None.

Disposal

None.

Hazards not otherwise classified (HNOC)

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No. | Weight-% |
|---|------------|----------|
| Petroleum distillates, hydrotreated heavy paraffinic | 64742-54-7 | 90 - 100 |
| Petroleum distillates, solvent dewaxed heavy paraffinic | 64742-65-0 | 1 - 5 |

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| | | |
|---|------------|---------|
| Paraffin oils, petroleum, catalytic dewaxed heavy | 64742-70-7 | 0.1 - 1 |
|---|------------|---------|

The producer of "8430" declares that it contains less than 3% DMSO extractable material by IP-346

4. FIRST AID MEASURES**First Aid Measures**

| | |
|-----------------------------------|--|
| General Advice | If symptoms develop move victim to fresh air. Show this safety data sheet to the doctor in attendance. Do not breathe dust/fume/gas/mist/vapors/spray. |
| Eye Contact | Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. |
| Skin Contact | Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. |
| Inhalation | Move to fresh air. Consult a physician. If not breathing, give artificial respiration. |
| Ingestion | May cause adverse kidney effects. Drink plenty of water. Do NOT induce vomiting. |
| Protection of First-aiders | Use personal protective equipment. |

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

| | |
|--|---|
| Flash Point | 218 °C / 425 °F |
| Suitable Extinguishing Media | Water spray, Carbon dioxide (CO ₂), Foam, Dry chemical |
| Unsuitable Extinguishing Media | Do not use a solid water stream as it may scatter and spread fire. |
| Specific Hazards Arising from the Chemical | Thermal decomposition can lead to release of irritating gases and vapors. |
| <u>Explosion Data</u> | |
| Sensitivity to Mechanical Impact | Not impact sensitive. |
| Sensitivity to Static Discharge | May be ignited by friction, heat, sparks or flames. |
| Protective Equipment and Precautions for Firefighters | Wear self-contained breathing apparatus and protective suit. |

NFPA **Health hazard** 1 **Flammability** 1 **Stability** 1

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

Personal Precautions Do not touch or walk through spilled material. Remove all sources of ignition.

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Environmental Precautions

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

Methods for Cleaning up Use personal protective equipment. Dam up. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

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

Advice on safe handling Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Prevent vapor buildup by providing adequate ventilation during and after use. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible products. Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure Guidelines**

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|------------------------------|-------------------|--|--|
| Ethylene diamine 107-15-3 | TWA: 10 ppm S* | TWA: 10 ppm TWA: 25 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 25 mg/m ³ | IDLH: 1000 ppm TWA: 10 ppm TWA: 25 mg/m ³ |
| Phenol 108-95-2 | TWA: 5 ppm S* | TWA: 5 ppm TWA: 19 mg/m ³ (vacated) TWA: 5 ppm (vacated) TWA: 19 mg/m ³ (vacated) S* S* | IDLH: 250 ppm Ceiling: 15.6 ppm Ceiling: 60 mg/m ³ TWA: 5 ppm TWA: 19 mg/m ³ |

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Eye protection not needed during typical product use conditions. Wear eye protection as appropriate when handling the bulk formulation.

Skin and Body Protection Long sleeved clothing. Protective gloves.

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Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

| | |
|----------------|--------------------------|
| Physical state | liquid |
| appearance | red |
| Odor | Hydrocarbon-like |
| Odor threshold | No information available |

Property**Property**

| | |
|--|-------------------|
| pH | 6 - 8 |
| Melting Point / Freezing Point | No data available |
| Boiling Point/Range | no data available |
| Flash Point | 218 °C / 425 °F |
| Upper flammability limit: | No data available |
| Lower Flammability Limit | No data available |
| Vapor pressure | No data available |
| Vapor Density | < 1 (Air = 1) |
| Specific Gravity | 0.882 |
| Water solubility | negligible |
| Partition Coefficient: n-octanol/water | no data available |
| Autoignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Viscosity, kinematic | 105.7 cSt @ 40°C |

10. STABILITY AND REACTIVITY

reactivity No information available

Chemical stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to Avoid Heat, flames and sparks. Contact with other chemicals

Incompatible Materials Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Product Information Product does not present an acute toxicity hazard based on known or supplied information

Inhalation May cause irritation of respiratory tract.

Eye Contact Contact with eyes may cause irritation.

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Skin Contact May cause irritation.**Ingestion** There is no data available for this product.**Component Information**

| Chemical name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|-----------------------|-------------------------|--------------------------------------|
| Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7 | > 15 g/kg (Rat) | > 5000 mg/kg (Rabbit) | - |
| Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0 | > 15000 mg/kg (Rat) | > 5000 mg/kg (Rabbit) | > 2400 mg/m ³ (Rat) 4 h |
| Paraffin oils, petroleum, catalytic dewaxed heavy 64742-70-7 | > 15000 mg/kg (Rat) | > 5000 mg/kg (Rabbit) | - |

Information on toxicological effects**Symptoms** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

The producer of "8430" declares that it contains less than 3% DMSO extractable material by IP-346

Sensitization No information available.**Mutagenic Effects** No information available.**Carcinogenicity** No information available.**Reproductive toxicity** No information available.**Target Organ Effects** Respiratory system, Eyes, Skin.**Numerical measures of toxicity - Product Information**

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

ATEmix (oral) 15749 mg/kg

ATEmix (dermal) 6301 mg/kg

12. ECOLOGICAL INFORMATION**Ecotoxicity** None known

| Chemical name | Algae/aquatic plants | Toxicity to Fish | Toxicity to Microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|---|----------------------|------------------|----------------------------|---|
| Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7 | - | - | - | - |
| Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0 | - | - | - | - |

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|---|---|
| <u>Persistence and Degradability</u> | No information available. |
| <u>Bioaccumulation</u> | No information available. |
| <u>Mobility</u> | The product is insoluble and floats on water. |
| <u>Other Adverse Effects</u> | No information available |

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Waste Disposal Methods Dispose of in accordance with local regulations.

Contaminated Packaging Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

| Chemical name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|--------------------|------|---|------------------------|------------------------|
| Phenol 108-95-2 | U188 | Included in waste streams: F039, K001, K022, K087 Included in waste stream: K060 | | |

This product contains one or more substances that are listed with the State of California as a hazardous waste

| Chemical name | California Hazardous Waste Status |
|---|-----------------------------------|
| Zinc alkyl dithiophosphate 113706-15-3 | Toxic |
| Ethylene diamine 107-15-3 | Toxic |
| Phenol 108-95-2 | Toxic Corrosive |

14. TRANSPORT INFORMATION

DOT Not regulated

15. REGULATORY INFORMATION**International Inventories**

| | |
|----------|----------------|
| TSCA | Complies |
| DSL/NDSL | Not determined |
| NDSL | Not determined |
| EINECS | Not determined |
| ELINCS | Not determined |
| ENCS | Not determined |
| IECSC | Complies |
| KECL | Not determined |
| PICCS | Not determined |

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AICS

Complies

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

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name | CAS No. | Weight-% | SARA 313 - Threshold Values % |
|--|-------------|----------|-------------------------------|
| Zinc alkyl dithiophosphate - 113706-15-3 | 113706-15-3 | 1.1511 | 1.0 |
| Phenol - 108-95-2 | 108-95-2 | 0.0004 | 1.0 |

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

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):

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|-----------------------------|------------------------|---------------------------|----------------------------|
| Zinc alkyl dithiophosphate 113706-15-3 | | X | | |
| Ethylene diamine 107-15-3 | 5000 lb | | | X |
| Phenol 108-95-2 | 1000 lb | X | X | X |

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) |
|------------------------------|--------------------------|----------------|--|
| Ethylene diamine 107-15-3 | 5000 lb | 5000 lb | RQ 5000 lb final RQ RQ 2270 kg final RQ |
| Phenol 108-95-2 | 1000 lb | 1000 lb | RQ 1000 lb final RQ RQ 454 kg final RQ |

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

NFPA **Health hazard** 1 **Flammability** 1 **Stability** 1**16. OTHER INFORMATION**

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Reason for revision Formulation.

Disclaimer

The information provided in this Material 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.

SDS is available at www.LElubricants.com**End of Safety Data Sheet**