

## SAFETY DATA SHEET

SDS: 8430

### 8430 MONOLEC® GFS ENGINE OIL

Issuing Date 04-24-2012

Revision Date 05-29-2013

Revision Number 4

#### 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

**Details of the supplier of the safety data sheet**

**Manufacturer**

Lubrication Engineers Inc.  
300 Bailey Avenue  
Fort Worth, TX 76107  
USA  
(817) 916-3200

**Emergency telephone number**

CHEMTREC: +1-703-527-3887 (INTERNATIONAL)  
1-800-424-9300 (NORTH AMERICA)

SDS: 8430

**8430 MONOLEC® GFS ENGINE OIL**

Issuing Date 04-24-2012

Revision Date 05-29-2013

Revision Number 4

**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

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 %
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	1 - 5

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

SDS: 8430

**8430 MONOLEC® GFS ENGINE OIL**

Issuing Date 04-24-2012

Revision Date 05-29-2013

Revision Number 4

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

<b>General Advice</b>	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.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
<b>Skin Contact</b>	Consult a physician if necessary. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air. Consult a physician. If not breathing, give artificial respiration.
<b>Ingestion</b>	May cause adverse kidney effects. Drink plenty of water. Do NOT induce vomiting.
<b>Protection of First-aiders</b>	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**

<b>Flash Point</b>	218 °C / 425 °F
<b>Suitable Extinguishing Media</b>	Water spray, Carbon dioxide (CO2), Foam, Dry chemical
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.
<b>Specific Hazards Arising from the Chemical</b>	Thermal decomposition can lead to release of irritating gases and vapors.
<b>Explosion Data</b>	
<b>Sensitivity to Mechanical Impact</b>	Not impact sensitive.
<b>Sensitivity to Static Discharge</b>	May be ignited by friction, heat, sparks or flames.
<b>Protective Equipment and Precautions for Firefighters</b>	Wear self-contained breathing apparatus and protective suit.

**NFPA****Health Hazard 1****Flammability 1****Instability 1**



SDS: 8430

**8430 MONOLEC® GFS ENGINE OIL**

Issuing Date 04-24-2012

Revision Date 05-29-2013

Revision Number 4

**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.

**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 and collect in suitable container 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 <sup>3</sup> (vacated) TWA: 10 ppm (vacated) TWA: 25 mg/m <sup>3</sup>	IDLH: 1000 ppm TWA: 10 ppm TWA: 25 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

SDS: 8430

**8430 MONOLEC® GFS ENGINE OIL**

Issuing Date 04-24-2012

Revision Date 05-29-2013

Revision Number 4

<b>Eye/Face Protection</b>	Tightly fitting safety goggles.
<b>Skin and Body Protection</b>	Long sleeved clothing. Protective gloves.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>Hygiene Measures</b>	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
pH	6 - 8
Melting point/freezing point	No data available
Boiling Point/Range	no data available
Flash Point	218 °C / 425 °F
Vapor pressure	No data available
Vapor Density	< 1 ( Air = 1 )
Specific Gravity	0.88
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**

<u>reactivity</u>	No information available
<u>Chemical stability</u>	Stable under recommended storage conditions.
<u>Possibility of Hazardous Reactions</u>	None under normal processing.
<u>Conditions to Avoid</u>	Heat, flames and sparks. Contact with other chemicals
<u>Incompatible Materials</u>	Strong oxidizing agents. Strong acids. Strong bases.
<u>Hazardous Decomposition Products</u>	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)

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

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information
----------------------------	--

SDS: 8430

**8430 MONOLEC® GFS ENGINE OIL**

Issuing Date 04-24-2012

Revision Date 05-29-2013

Revision Number 4

---

Inhalation	May cause irritation of respiratory tract.
Eye Contact	Contact with eyes may cause irritation.
Skin Contact	May cause irritation.
Ingestion	There is no data available for this product.

**Component Information** No information available

**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) 4471 mg/kg

ATEmix (dermal) 5366 mg/kg



SDS: 8430

**8430 MONOLEC® GFS ENGINE OIL**

Issuing Date 04-24-2012

Revision Date 05-29-2013

Revision Number 4

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts 68649-42-3	-	LC50 1.0 - 5.0 mg/L Pimephales promelas 96 h LC50 10.0 - 35.0 mg/L Pimephales promelas 96 h	-	EC50 1 - 1.5 mg/L 48 h

**Persistence and Degradability** No information available.**Bioaccumulation** No information available.**Mobility** The product is insoluble and floats on water.

Chemical Name	Log Pow
Ethylene diamine 107-15-3	-1.221

**Other Adverse Effects** 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.

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
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts 68649-42-3	Toxic
Ethylene diamine 107-15-3	Toxic

**14. TRANSPORT INFORMATION****DOT** Not regulated

SDS: 8430

**8430 MONOLEC® GFS ENGINE OIL**

Issuing Date 04-24-2012

Revision Date 05-29-2013

Revision Number 4

**15. REGULATORY INFORMATION****International Inventories**

TSCA	Complies
DSL/NDL	Not determined
NDL	Not determined
EINECS	Not determined
ELINCS	Not determined
ENCS	Not determined
IECSC	Complies
KECL	Not determined
PICCS	Complies
AICS	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - 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 %
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts - 68649-42-3	68649-42-3	1.19399	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
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts 68649-42-3		X		
Ethylene diamine 107-15-3	5000 lb			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):



SDS: 8430

**8430 MONOLEC® GFS ENGINE OIL**

Issuing Date 04-24-2012

Revision Date 05-29-2013

Revision Number 4

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

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

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts 68649-42-3			X

**16. OTHER INFORMATION**

Issuing Date 04-24-2012  
Revision Date 05-29-2013  
Reason for revision No information available  
**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.

End of Safety Data Sheet