



## SAFETY DATA SHEET

SDS: 6401

# 6401 MONOLEC® R&O COMPRESSOR/TURBINE OIL

Issuing Date 04-24-2012

Revision Date 05-13-2020

Revision Number 4.1

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

**Product Identifier****Product Name**

6401 MONOLEC® R&amp;O COMPRESSOR/TURBINE 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

The producer of "6401" declares that it contains less than 3% DMSO extractable material by IP-346

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## 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 while 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>	210 °C / 410 °F
<b>Suitable Extinguishing Media</b>	Water spray, Carbon dioxide (CO <sub>2</sub> ), 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                      **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.

### Environmental Precautions

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**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
White Mineral Oil 8042-47-5	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 2500 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Diphenylamine 122-39-4	TWA: 10 mg/m <sup>3</sup>	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Phenol 108-95-2	TWA: 5 ppm S*	TWA: 5 ppm TWA: 19 mg/m <sup>3</sup> (vacated) TWA: 5 ppm (vacated) TWA: 19 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 250 ppm Ceiling: 15.6 ppm Ceiling: 60 mg/m <sup>3</sup> TWA: 5 ppm TWA: 19 mg/m <sup>3</sup>

### 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

pH	6 - 8
Melting Point / Freezing Point	No data available
Boiling Point/Range	no data available
Flash Point	210 °C / 410 °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	0.87
Water solubility	negligible
Partition Coefficient: n-octanol/water	no data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity, kinematic	31.87 cSt @ 40°C

#### Property

## 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.

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<b>Eye Contact</b>	Contact with eyes may cause irritation.
<b>Skin Contact</b>	May cause irritation.
<b>Ingestion</b>	There is no data available for this product.

## Component Information

### 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 "6401" 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)	15345 mg/kg
ATEmix (dermal)	6139 mg/kg

## **12. ECOLOGICAL INFORMATION**

<b><u>Ecotoxicity</u></b>	None known
<b><u>Persistence and Degradability</u></b>	No information available.
<b><u>Bioaccumulation</u></b>	No information available.
<b><u>Mobility</u></b>	The product is insoluble and floats on water.
<b><u>Other Adverse Effects</u></b>	No information available

## **13. DISPOSAL CONSIDERATIONS**

### **Waste treatment methods**

**Waste Disposal Methods** Dispose of in accordance with local regulations.

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**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
Diphenylamine 122-39-4		Included in waste streams: F039, K083, K104		
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
Diphenylamine 122-39-4	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	Complies
PICCS	Complies
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

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**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 %
Petroleum distillates, solvent dewaxed heavy paraffinic - 64742-65-0	64742-65-0	90 - 100	
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene - 68411-46-1	68411-46-1	0.1 - 1	
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9- - 125643-61-0	125643-61-0	0.1 - 1	
21151 Proprietary Organsulfur-phosphorus Compounds - 9999-99-9	9999-99-9	0.1 - 1	
20095 Alkyl phenol - 9999-99-9	9999-99-9	0.1 - 1	
White Mineral Oil - 8042-47-5	8042-47-5	< 0.1	
N-1-naphthylaniline - 90-30-2	90-30-2	< 0.1	
Petroleum distillates, hydrotreated middle - 64742-46-7	64742-46-7	< 0.1	
Petroleum distillates, solvent dewaxed light paraffinic - 64742-56-9	64742-56-9	< 0.1	
Dilauryl Hydrogen Phosphite - 21302-09-0	21302-09-0	< 0.1	
21271 Long chain alkyl amide - 9999-99-9	9999-99-9	< 0.1	
Methyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate - 6386-38-5	6386-38-5	< 0.1	
Petroleum distillates, hydrotreated heavy naphthenic - 64742-52-5	64742-52-5	< 0.1	
Petroleum distillates, hydrotreated light - 64742-47-8	64742-47-8	< 0.1	
20095 Alkaryl Triazole - 9999-99-9	9999-99-9	< 0.1	
Methylene Bridged Polyalkyl Phenols - 68610-07-1	68610-07-1	< 0.1	
Diphenylamine - 122-39-4	122-39-4	< 0.1	1.0
Petroleum distillates, hydrotreated light naphthenic - 64742-53-6	64742-53-6	< 0.1	
4,4'-Methylenebis(2,6-di-tert-butylphenol) - 118-82-1	118-82-1	< 0.1	
Naphta (petroleum) light aromatic - 64742-95-6	64742-95-6	< 0.1	
Phenol - 108-95-2	108-95-2	< 0.1	1.0
Ortho-tert-butylphenol - 88-18-6	88-18-6	< 0.1	

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	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
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):



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Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (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.

### 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**

Issuing Date 04-24-2012  
 Revision Date 05-13-2020  
 Reason for revision General Information.

### 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](http://www.LElubricants.com)

**End of Safety Data Sheet**



## SAFETY DATA SHEET

SDS: 6402

# 6402 MONOLEC® R&O COMPRESSOR/TURBINE OIL

Issuing Date 04-24-2012

Revision Date 05-13-2020

Revision Number 4.2

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

**Product Identifier****Product Name**

6402 MONOLEC® R&amp;O COMPRESSOR/TURBINE 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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Issuing Date 04-24-2012

Revision Date 05-13-2020

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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

The producer of "6402" declares that it contains less than 3% DMSO extractable material by IP-346

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## 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 while 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>	215 °C / 419 °F
<b>Suitable Extinguishing Media</b>	Water spray, Carbon dioxide (CO <sub>2</sub> ), 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                      **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.

### Environmental Precautions

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# 6402 MONOLEC® R&O COMPRESSOR/TURBINE OIL

Issuing Date 04-24-2012

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**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
White Mineral Oil 8042-47-5	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 2500 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Diphenylamine 122-39-4	TWA: 10 mg/m <sup>3</sup>	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Phenol 108-95-2	TWA: 5 ppm S*	TWA: 5 ppm TWA: 19 mg/m <sup>3</sup> (vacated) TWA: 5 ppm (vacated) TWA: 19 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 250 ppm Ceiling: 15.6 ppm Ceiling: 60 mg/m <sup>3</sup> TWA: 5 ppm TWA: 19 mg/m <sup>3</sup>

### 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

pH	6 - 8
Melting Point / Freezing Point	No data available
Boiling Point/Range	no data available
Flash Point	215 °C / 419 °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	0.87
Water solubility	negligible
Partition Coefficient: n-octanol/water	no data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity, kinematic	45.23 cSt @ 40°C

#### Property

## 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.

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<b>Eye Contact</b>	Contact with eyes may cause irritation.
<b>Skin Contact</b>	May cause irritation.
<b>Ingestion</b>	There is no data available for this product.

## Component Information

### 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 "6402" 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)	15341 mg/kg
ATEmix (dermal)	6137 mg/kg

## **12. ECOLOGICAL INFORMATION**

<b><u>Ecotoxicity</u></b>	None known
<b><u>Persistence and Degradability</u></b>	No information available.
<b><u>Bioaccumulation</u></b>	No information available.
<b><u>Mobility</u></b>	The product is insoluble and floats on water.
<b><u>Other Adverse Effects</u></b>	No information available

## **13. DISPOSAL CONSIDERATIONS**

### **Waste treatment methods**

**Waste Disposal Methods** Dispose of in accordance with local regulations.

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Issuing Date 04-24-2012

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**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
Diphenylamine 122-39-4		Included in waste streams: F039, K083, K104		
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
Diphenylamine 122-39-4	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	Complies
PICCS	Complies
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



SDS: 6402

## 6402 MONOLEC® R&O COMPRESSOR/TURBINE OIL

Issuing Date 04-24-2012

Revision Date 05-13-2020

Revision Number 4.2

**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 %
Petroleum distillates, solvent dewaxed heavy paraffinic - 64742-65-0	64742-65-0	90 - 100	
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene - 68411-46-1	68411-46-1	0.1 - 1	
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9- - 125643-61-0	125643-61-0	0.1 - 1	
21151 Proprietary Organsulfur-phosphorus Compounds - 9999-99-9	9999-99-9	0.1 - 1	
20095 Alkyl phenol - 9999-99-9	9999-99-9	0.1 - 1	
White Mineral Oil - 8042-47-5	8042-47-5	< 0.1	
N-1-naphthylaniline - 90-30-2	90-30-2	< 0.1	
Petroleum distillates, hydrotreated middle - 64742-46-7	64742-46-7	< 0.1	
Dilauryl Hydrogen Phosphite - 21302-09-0	21302-09-0	< 0.1	
21271 Long chain alkyl amide - 9999-99-9	9999-99-9	< 0.1	
Methyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate - 6386-38-5	6386-38-5	< 0.1	
Petroleum distillates, hydrotreated heavy naphthenic - 64742-52-5	64742-52-5	< 0.1	
Petroleum distillates, solvent dewaxed light paraffinic - 64742-56-9	64742-56-9	< 0.1	
Petroleum distillates, hydrotreated light - 64742-47-8	64742-47-8	< 0.1	
20095 Alkaryl Triazole - 9999-99-9	9999-99-9	< 0.1	
Methylene Bridged Polyalkyl Phenols - 68610-07-1	68610-07-1	< 0.1	
Diphenylamine - 122-39-4	122-39-4	< 0.1	1.0
Petroleum distillates, hydrotreated light naphthenic - 64742-53-6	64742-53-6	< 0.1	
4,4'-Methylenebis(2,6-di-tert-butylphenol) - 118-82-1	118-82-1	< 0.1	
Naphta (petroleum) light aromatic - 64742-95-6	64742-95-6	< 0.1	
Phenol - 108-95-2	108-95-2	< 0.1	1.0
Ortho-tert-butylphenol - 88-18-6	88-18-6	< 0.1	

**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
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):

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Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (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.

### 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**

Issuing Date 04-24-2012  
 Revision Date 05-13-2020  
 Reason for revision General Information.

### 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](http://www.LElubricants.com)

**End of Safety Data Sheet**



## SAFETY DATA SHEET

SDS: 6403

# 6403 MONOLEC® R&O COMPRESSOR/TURBINE OIL

Issuing Date 04-24-2012

Revision Date 05-13-2020

Revision Number 4.1

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

**Product Identifier****Product Name**

6403 MONOLEC® R&amp;O COMPRESSOR/TURBINE 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)

SDS: 6403

# 6403 MONOLEC® R&O COMPRESSOR/TURBINE OIL

Issuing Date 04-24-2012

Revision Date 05-13-2020

Revision Number 4.1

## 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

The producer of "6403" declares that it contains less than 3% DMSO extractable material by IP-346

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## 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 while 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>	223 °C / 433.4 °F
<b>Suitable Extinguishing Media</b>	Water spray, Carbon dioxide (CO <sub>2</sub> ), 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 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.

### Environmental Precautions

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# 6403 MONOLEC® R&O COMPRESSOR/TURBINE OIL

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**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
White Mineral Oil 8042-47-5	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 2500 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Diphenylamine 122-39-4	TWA: 10 mg/m <sup>3</sup>	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Phenol 108-95-2	TWA: 5 ppm S*	TWA: 5 ppm TWA: 19 mg/m <sup>3</sup> (vacated) TWA: 5 ppm (vacated) TWA: 19 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 250 ppm Ceiling: 15.6 ppm Ceiling: 60 mg/m <sup>3</sup> TWA: 5 ppm TWA: 19 mg/m <sup>3</sup>

### 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

pH	6 - 8
Melting Point / Freezing Point	No data available
Boiling Point/Range	no data available
Flash Point	223 °C / 433.4 °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	0.87
Water solubility	negligible
Partition Coefficient: n-octanol/water	no data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity, kinematic	67.60 cSt @ 40°C

#### Property

## 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.

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<b>Eye Contact</b>	Contact with eyes may cause irritation.
<b>Skin Contact</b>	May cause irritation.
<b>Ingestion</b>	There is no data available for this product.

## Component Information

### 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 "6403" 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)	15341 mg/kg
ATEmix (dermal)	6137 mg/kg

## **12. ECOLOGICAL INFORMATION**

<b><u>Ecotoxicity</u></b>	None known
<b><u>Persistence and Degradability</u></b>	No information available.
<b><u>Bioaccumulation</u></b>	No information available.
<b><u>Mobility</u></b>	The product is insoluble and floats on water.
<b><u>Other Adverse Effects</u></b>	No information available

## **13. DISPOSAL CONSIDERATIONS**

### **Waste treatment methods**

**Waste Disposal Methods** Dispose of in accordance with local regulations.



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**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
Diphenylamine 122-39-4		Included in waste streams: F039, K083, K104		
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
Diphenylamine 122-39-4	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	Complies
PICCS	Complies
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**

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**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 %
Petroleum distillates, solvent dewaxed heavy paraffinic - 64742-65-0	64742-65-0	90 - 100	
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene - 68411-46-1	68411-46-1	0.1 - 1	
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9- - 125643-61-0	125643-61-0	0.1 - 1	
21151 Proprietary Organsulfur-phosphorus Compounds - 9999-99-9	9999-99-9	0.1 - 1	
20095 Alkyl phenol - 9999-99-9	9999-99-9	0.1 - 1	
White Mineral Oil - 8042-47-5	8042-47-5	< 0.1	
N-1-naphthylaniline - 90-30-2	90-30-2	< 0.1	
Petroleum distillates, hydrotreated middle - 64742-46-7	64742-46-7	< 0.1	
Dilauryl Hydrogen Phosphite - 21302-09-0	21302-09-0	< 0.1	
21271 Long chain alkyl amide - 9999-99-9	9999-99-9	< 0.1	
Methyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate - 6386-38-5	6386-38-5	< 0.1	
Petroleum distillates, hydrotreated heavy naphthenic - 64742-52-5	64742-52-5	< 0.1	
Petroleum distillates, solvent dewaxed light paraffinic - 64742-56-9	64742-56-9	< 0.1	
Petroleum distillates, hydrotreated light - 64742-47-8	64742-47-8	< 0.1	
20095 Alkaryl Triazole - 9999-99-9	9999-99-9	< 0.1	
Methylene Bridged Polyalkyl Phenols - 68610-07-1	68610-07-1	< 0.1	
Diphenylamine - 122-39-4	122-39-4	< 0.1	1.0
Petroleum distillates, hydrotreated light naphthenic - 64742-53-6	64742-53-6	< 0.1	
4,4'-Methylenebis(2,6-di-tert-butylphenol) - 118-82-1	118-82-1	< 0.1	
Naphta (petroleum) light aromatic - 64742-95-6	64742-95-6	< 0.1	
Phenol - 108-95-2	108-95-2	< 0.1	1.0
Ortho-tert-butylphenol - 88-18-6	88-18-6	< 0.1	

**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
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):

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Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (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.

### 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**

Issuing Date 04-24-2012  
 Revision Date 05-13-2020  
 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](http://www.LElubricants.com)

**End of Safety Data Sheet**



## SAFETY DATA SHEET

SDS: 6404

# 6404 MONOLEC® R&O COMPRESSOR/TURBINE OIL

Issuing Date 04-24-2012

Revision Date 05-14-2020

Revision Number 4.1

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

**Product Identifier****Product Name**

6404 MONOLEC® R&amp;O COMPRESSOR/TURBINE 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)

SDS: 6404

# 6404 MONOLEC® R&O COMPRESSOR/TURBINE OIL

Issuing Date 04-24-2012

Revision Date 05-14-2020

Revision Number 4.1

## 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

The producer of "6404" declares that it contains less than 3% DMSO extractable material by IP-346

SDS: 6404

# 6404 MONOLEC® R&O COMPRESSOR/TURBINE OIL

Issuing Date 04-24-2012

Revision Date 05-14-2020

Revision Number 4.1

## 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 while 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>	237 °C / 458.6 °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                      **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.

### Environmental Precautions

SDS: 6404

# 6404 MONOLEC® R&O COMPRESSOR/TURBINE OIL

Issuing Date 04-24-2012

Revision Date 05-14-2020

Revision Number 4.1

**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
White Mineral Oil 8042-47-5	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 2500 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Diphenylamine 122-39-4	TWA: 10 mg/m <sup>3</sup>	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Phenol 108-95-2	TWA: 5 ppm S*	TWA: 5 ppm TWA: 19 mg/m <sup>3</sup> (vacated) TWA: 5 ppm (vacated) TWA: 19 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 250 ppm Ceiling: 15.6 ppm Ceiling: 60 mg/m <sup>3</sup> TWA: 5 ppm TWA: 19 mg/m <sup>3</sup>

### 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

pH	6 - 8
Melting Point / Freezing Point	No data available
Boiling Point/Range	no data available
Flash Point	237 °C / 458.6 °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	0.88
Water solubility	negligible
Partition Coefficient: n-octanol/water	no data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity, kinematic	98.27 cSt @ 40°C

#### Property

## 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.



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<b>Eye Contact</b>	Contact with eyes may cause irritation.
<b>Skin Contact</b>	May cause irritation.
<b>Ingestion</b>	There is no data available for this product.

## Component Information

### 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 "6404" 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)	15366 mg/kg
ATEmix (dermal)	6148 mg/kg

## 12. ECOLOGICAL INFORMATION

<b><u>Ecotoxicity</u></b>	None known
<b><u>Persistence and Degradability</u></b>	No information available.
<b><u>Bioaccumulation</u></b>	No information available.
<b><u>Mobility</u></b>	The product is insoluble and floats on water.
<b><u>Other Adverse Effects</u></b>	No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Waste Disposal Methods** Dispose of in accordance with local regulations.

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**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
Diphenylamine 122-39-4		Included in waste streams: F039, K083, K104		
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
Diphenylamine 122-39-4	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	Complies
PICCS	Complies
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**

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**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 %
Petroleum distillates, solvent dewaxed heavy paraffinic - 64742-65-0	64742-65-0	90 - 100	
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene - 68411-46-1	68411-46-1	0.1 - 1	
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9- - 125643-61-0	125643-61-0	0.1 - 1	
21151 Proprietary Organsulfur-phosphorus Compounds - 9999-99-9	9999-99-9	0.1 - 1	
20095 Alkyl phenol - 9999-99-9	9999-99-9	0.1 - 1	
White Mineral Oil - 8042-47-5	8042-47-5	< 0.1	
N-1-naphthylaniline - 90-30-2	90-30-2	< 0.1	
Petroleum distillates, hydrotreated middle - 64742-46-7	64742-46-7	< 0.1	
Dilauryl Hydrogen Phosphite - 21302-09-0	21302-09-0	< 0.1	
21271 Long chain alkyl amide - 9999-99-9	9999-99-9	< 0.1	
Methyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate - 6386-38-5	6386-38-5	< 0.1	
Petroleum distillates, hydrotreated heavy naphthenic - 64742-52-5	64742-52-5	< 0.1	
Petroleum distillates, solvent dewaxed light paraffinic - 64742-56-9	64742-56-9	< 0.1	
Petroleum distillates, hydrotreated light - 64742-47-8	64742-47-8	< 0.1	
20095 Alkaryl Triazole - 9999-99-9	9999-99-9	< 0.1	
Methylene Bridged Polyalkyl Phenols - 68610-07-1	68610-07-1	< 0.1	
Diphenylamine - 122-39-4	122-39-4	< 0.1	1.0
Petroleum distillates, hydrotreated light naphthenic - 64742-53-6	64742-53-6	< 0.1	
4,4'-Methylenebis(2,6-di-tert-butylphenol) - 118-82-1	118-82-1	< 0.1	
Naphta (petroleum) light aromatic - 64742-95-6	64742-95-6	< 0.1	
Phenol - 108-95-2	108-95-2	< 0.1	1.0
Ortho-tert-butylphenol - 88-18-6	88-18-6	< 0.1	

**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
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):

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Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (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.

### 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

Issuing Date 04-24-2012  
 Revision Date 05-14-2020  
 Reason for revision General Information.

### 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](http://www.LElubricants.com)

**End of Safety Data Sheet**



## SAFETY DATA SHEET

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

**Product Identifier****Product Name**

6405 MONOLEC® R&amp;O COMPRESSOR/TURBINE 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

The producer of "6405" declares that it contains less than 3% DMSO extractable material by IP-346

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## 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. Call a physician if irritation persists.
<b>Skin Contact</b>	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Ingestion</b>	Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
<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><u>Flash Point</u></b>	246 °C / 474.8 °F
<b><u>Suitable Extinguishing Media</u></b>	Water spray, Carbon dioxide (CO2), Foam, Dry chemical
<b><u>Unsuitable Extinguishing Media</u></b>	Do not use a solid water stream as it may scatter and spread fire.
<b><u>Specific Hazards Arising from the Chemical</u></b>	Thermal decomposition can lead to release of irritating gases and vapors.
<b><u>Explosion Data</u></b>	
<b><u>Sensitivity to Mechanical Impact</u></b>	Not impact sensitive.
<b><u>Sensitivity to Static Discharge</u></b>	May be ignited by friction, heat, sparks or flames.
<b><u>Protective Equipment and Precautions for Firefighters</u></b>	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
White Mineral Oil 8042-47-5	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 2500 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Diphenylamine 122-39-4	TWA: 10 mg/m <sup>3</sup>	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Phenol 108-95-2	TWA: 5 ppm S*	TWA: 5 ppm TWA: 19 mg/m <sup>3</sup> (vacated) TWA: 5 ppm (vacated) TWA: 19 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 250 ppm Ceiling: 15.6 ppm Ceiling: 60 mg/m <sup>3</sup> TWA: 5 ppm TWA: 19 mg/m <sup>3</sup>

### 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.



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<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

<b>Physical state</b>	liquid
<b>appearance</b>	red
<b>Odor</b>	Hydrocarbon-like
<b>Odor threshold</b>	No information available

#### Property

<b>pH</b>	6 - 8
<b>Melting Point / Freezing Point</b>	No data available
<b>Boiling Point/Range</b>	no data available
<b>Flash Point</b>	246 °C / 474.8 °F
<b>Upper flammability limit:</b>	No data available
<b>Lower Flammability Limit</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor Density</b>	< 1 ( Air = 1 )
<b>Specific Gravity</b>	0.881
<b>Water solubility</b>	negligible
<b>Partition Coefficient: n-octanol/water</b>	no data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity, kinematic</b>	150.1 cSt @ 40°C

#### Property

## 10. STABILITY AND REACTIVITY

<b>reactivity</b>	No information available
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Conditions to Avoid</b>	Heat, flames and sparks. Contact with other chemicals
<b>Incompatible Materials</b>	Strong oxidizing agents. Strong acids. Strong bases.
<b>Hazardous Decomposition Products</b>	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
<b>Inhalation</b>	May cause irritation of respiratory tract.

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<b>Eye Contact</b>	Contact with eyes may cause irritation.
<b>Skin Contact</b>	May cause irritation.
<b>Ingestion</b>	There is no data available for this product.

## Component Information

### 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 "6405" 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)	12703 mg/kg
ATEmix (dermal)	5082 mg/kg

## **12. ECOLOGICAL INFORMATION**

### Ecotoxicity

**Persistence and Degradability** No information available.

### Bioaccumulation

.

**Mobility** The product is insoluble and floats on water.

**Other Adverse Effects** No information available

## **13. DISPOSAL CONSIDERATIONS**

### Waste treatment methods

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**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
Diphenylamine 122-39-4		Included in waste streams: F039, K083, K104		
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
Diphenylamine 122-39-4	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	Complies
PICCS	Complies
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

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## 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 %
Petroleum distillates, solvent dewaxed heavy paraffinic - 64742-65-0	64742-65-0	80 - 90	
Residual oils (petroleum), solvent dewaxed - 64742-62-7	64742-62-7	10 - 20	
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene - 68411-46-1	68411-46-1	0.1 - 1	
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9- - 125643-61-0	125643-61-0	0.1 - 1	
21151 Proprietary Organsulfur-phosphorus Compounds - 9999-99-9	9999-99-9	0.1 - 1	
20095 Alkyl phenol - 9999-99-9	9999-99-9	0.1 - 1	
White Mineral Oil - 8042-47-5	8042-47-5	< 0.1	
N-1-naphthylaniline - 90-30-2	90-30-2	< 0.1	
Petroleum distillates, hydrotreated middle - 64742-46-7	64742-46-7	< 0.1	
Petroleum distillates, solvent dewaxed light paraffinic - 64742-56-9	64742-56-9	< 0.1	
Dilauryl Hydrogen Phosphite - 21302-09-0	21302-09-0	< 0.1	
21271 Long chain alkyl amide - 9999-99-9	9999-99-9	< 0.1	
Methyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate - 6386-38-5	6386-38-5	< 0.1	
Petroleum distillates, hydrotreated heavy naphthenic - 64742-52-5	64742-52-5	< 0.1	
Petroleum distillates, hydrotreated light - 64742-47-8	64742-47-8	< 0.1	
20095 Alkaryl Triazole - 9999-99-9	9999-99-9	< 0.1	
Methylene Bridged Polyalkyl Phenols - 68610-07-1	68610-07-1	< 0.1	
Diphenylamine - 122-39-4	122-39-4	< 0.1	1.0
Petroleum distillates, hydrotreated light naphthenic - 64742-53-6	64742-53-6	< 0.1	
4,4'-Methylenebis(2,6-di-tert-butylphenol) - 118-82-1	118-82-1	< 0.1	
Naphta (petroleum) light aromatic - 64742-95-6	64742-95-6	< 0.1	
Phenol - 108-95-2	108-95-2	< 0.1	1.0
Ortho-tert-butylphenol - 88-18-6	88-18-6	< 0.1	

### SARA 311/312 Hazard Categories

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	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
Phenol 108-95-2	1000 lb	X	X	X

### CERCLA

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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)
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.

### 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

Issuing Date 04-24-2012  
 Revision Date 05-14-2020  
 Reason for revision General Information.

### 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](http://www.LElubricants.com)

**End of Safety Data Sheet**



## SAFETY DATA SHEET

SDS: 6406

# 6406 MONOLEC® R&O COMPRESSOR/TURBINE OIL

Issuing Date 04-24-2012

Revision Date 05-14-2020

Revision Number 4.1

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

**Product Identifier****Product Name**

6406 MONOLEC® R&amp;O COMPRESSOR/TURBINE 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)

SDS: 6406

# 6406 MONOLEC® R&O COMPRESSOR/TURBINE OIL

Issuing Date 04-24-2012

Revision Date 05-14-2020

Revision Number 4.1

## 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

- May be harmful in contact with skin

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

The producer of "6406" declares that it contains less than 3% DMSO extractable material by IP-346

SDS: 6406

# 6406 MONOLEC® R&O COMPRESSOR/TURBINE OIL

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Revision Number 4.1

## 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. Call a physician if irritation persists.
<b>Skin Contact</b>	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Ingestion</b>	Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
<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><u>Flash Point</u></b>	244 °C / 471.2 °F
<b><u>Suitable Extinguishing Media</u></b>	Water spray, Carbon dioxide (CO2), Foam, Dry chemical
<b><u>Unsuitable Extinguishing Media</u></b>	Do not use a solid water stream as it may scatter and spread fire.
<b><u>Specific Hazards Arising from the Chemical</u></b>	Thermal decomposition can lead to release of irritating gases and vapors.
<b><u>Explosion Data</u></b>	
<b><u>Sensitivity to Mechanical Impact</u></b>	Not impact sensitive.
<b><u>Sensitivity to Static Discharge</u></b>	May be ignited by friction, heat, sparks or flames.
<b><u>Protective Equipment and Precautions for Firefighters</u></b>	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
White Mineral Oil 8042-47-5	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 2500 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Diphenylamine 122-39-4	TWA: 10 mg/m <sup>3</sup>	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Phenol 108-95-2	TWA: 5 ppm S*	TWA: 5 ppm TWA: 19 mg/m <sup>3</sup> (vacated) TWA: 5 ppm (vacated) TWA: 19 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 250 ppm Ceiling: 15.6 ppm Ceiling: 60 mg/m <sup>3</sup> TWA: 5 ppm TWA: 19 mg/m <sup>3</sup>

### 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.

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<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

<b>Physical state</b>	liquid
<b>appearance</b>	red
<b>Odor</b>	Hydrocarbon-like
<b>Odor threshold</b>	No information available

#### Property

#### Property

<b>pH</b>	6 - 8
<b>Melting Point / Freezing Point</b>	No data available
<b>Boiling Point/Range</b>	no data available
<b>Flash Point</b>	244 °C / 471.2 °F
<b>Upper flammability limit:</b>	No data available
<b>Lower Flammability Limit</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor Density</b>	< 1 ( Air = 1 )
<b>Specific Gravity</b>	0.885
<b>Water solubility</b>	negligible
<b>Partition Coefficient: n-octanol/water</b>	no data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity, kinematic</b>	225.6 cSt @ 40°C

## 10. STABILITY AND REACTIVITY

<b><u>reactivity</u></b>	No information available
<b><u>Chemical stability</u></b>	Stable under recommended storage conditions.
<b><u>Possibility of Hazardous Reactions</u></b>	None under normal processing.
<b><u>Conditions to Avoid</u></b>	Heat, flames and sparks. Contact with other chemicals
<b><u>Incompatible Materials</u></b>	Strong oxidizing agents. Strong acids. Strong bases.
<b><u>Hazardous Decomposition Products</u></b>	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
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<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye Contact</b>	Contact with eyes may cause irritation.
<b>Skin Contact</b>	May cause irritation.
<b>Ingestion</b>	There is no data available for this product.

## Component Information

### 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 "6406" 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)	8293 mg/kg
ATEmix (dermal)	3317 mg/kg

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

**Mobility** The product is insoluble and floats on water.

**Other Adverse Effects** No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

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**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
Diphenylamine 122-39-4		Included in waste streams: F039, K083, K104		
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
Diphenylamine 122-39-4	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	Complies
PICCS	Complies
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

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## 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 %
Petroleum distillates, solvent dewaxed heavy paraffinic - 64742-65-0	64742-65-0	50 - 60	
Residual oils (petroleum), solvent dewaxed - 64742-62-7	64742-62-7	40 - 50	
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene - 68411-46-1	68411-46-1	0.1 - 1	
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9- - 125643-61-0	125643-61-0	0.1 - 1	
21151 Proprietary Organsulfur-phosphorus Compounds - 9999-99-9	9999-99-9	0.1 - 1	
20095 Alkyl phenol - 9999-99-9	9999-99-9	0.1 - 1	
White Mineral Oil - 8042-47-5	8042-47-5	< 0.1	
N-1-naphthylaniline - 90-30-2	90-30-2	< 0.1	
Petroleum distillates, hydrotreated middle - 64742-46-7	64742-46-7	< 0.1	
Petroleum distillates, solvent dewaxed light paraffinic - 64742-56-9	64742-56-9	< 0.1	
Dilauryl Hydrogen Phosphite - 21302-09-0	21302-09-0	< 0.1	
21271 Long chain alkyl amide - 9999-99-9	9999-99-9	< 0.1	
Methyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate - 6386-38-5	6386-38-5	< 0.1	
Petroleum distillates, hydrotreated heavy naphthenic - 64742-52-5	64742-52-5	< 0.1	
Petroleum distillates, hydrotreated light - 64742-47-8	64742-47-8	< 0.1	
20095 Alkaryl Triazole - 9999-99-9	9999-99-9	< 0.1	
Methylene Bridged Polyalkyl Phenols - 68610-07-1	68610-07-1	< 0.1	
Diphenylamine - 122-39-4	122-39-4	< 0.1	1.0
Petroleum distillates, hydrotreated light naphthenic - 64742-53-6	64742-53-6	< 0.1	
4,4'-Methylenebis(2,6-di-tert-butylphenol) - 118-82-1	118-82-1	< 0.1	
Naphta (petroleum) light aromatic - 64742-95-6	64742-95-6	< 0.1	
Phenol - 108-95-2	108-95-2	< 0.1	1.0
Ortho-tert-butylphenol - 88-18-6	88-18-6	< 0.1	

### SARA 311/312 Hazard Categories

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	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
Phenol 108-95-2	1000 lb	X	X	X

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Revision Date 05-14-2020

Revision Number 4.1

**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)
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.

**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**

Issuing Date 04-24-2012  
Revision Date 05-14-2020  
Reason for revision General Information.

**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](http://www.LElubricants.com)

**End of Safety Data Sheet**



## SAFETY DATA SHEET

SDS: 6407

# 6407 MONOLEC® R&O COMPRESSOR/TURBINE OIL

Issuing Date 04-24-2012

Revision Date 05-14-2020

Revision Number 4.1

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

**Product Identifier****Product Name**

6407 MONOLEC® R&amp;O COMPRESSOR/TURBINE 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)

SDS: 6407

# 6407 MONOLEC® R&O COMPRESSOR/TURBINE OIL

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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

- May be harmful in contact with skin

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

The producer of "6407" declares that it contains less than 3% DMSO extractable material by IP-346



SDS: 6407

# 6407 MONOLEC® R&O COMPRESSOR/TURBINE OIL

Issuing Date 04-24-2012

Revision Date 05-14-2020

Revision Number 4.1

## 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. Call a physician if irritation persists.
<b>Skin Contact</b>	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Ingestion</b>	Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
<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><u>Flash Point</u></b>	246 °C / 474.8 °F
<b><u>Suitable Extinguishing Media</u></b>	Water spray, Carbon dioxide (CO2), Foam, Dry chemical
<b><u>Unsuitable Extinguishing Media</u></b>	Do not use a solid water stream as it may scatter and spread fire.
<b><u>Specific Hazards Arising from the Chemical</u></b>	Thermal decomposition can lead to release of irritating gases and vapors.
<b><u>Explosion Data</u></b>	
<b><u>Sensitivity to Mechanical Impact</u></b>	Not impact sensitive.
<b><u>Sensitivity to Static Discharge</u></b>	May be ignited by friction, heat, sparks or flames.
<b><u>Protective Equipment and Precautions for Firefighters</u></b>	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.

SDS: 6407

# 6407 MONOLEC® R&O COMPRESSOR/TURBINE OIL

Issuing Date 04-24-2012

Revision Date 05-14-2020

Revision Number 4.1

## 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
White Mineral Oil 8042-47-5	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 2500 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>
Diphenylamine 122-39-4	TWA: 10 mg/m <sup>3</sup>	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Phenol 108-95-2	TWA: 5 ppm S*	TWA: 5 ppm TWA: 19 mg/m <sup>3</sup> (vacated) TWA: 5 ppm (vacated) TWA: 19 mg/m <sup>3</sup> (vacated) S* S*	IDLH: 250 ppm Ceiling: 15.6 ppm Ceiling: 60 mg/m <sup>3</sup> TWA: 5 ppm TWA: 19 mg/m <sup>3</sup>

### 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.

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<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

<b>Physical state</b>	liquid
<b>appearance</b>	red
<b>Odor</b>	Hydrocarbon-like
<b>Odor threshold</b>	No information available

#### Property

#### Property

<b>pH</b>	6 - 8
<b>Melting Point / Freezing Point</b>	No data available
<b>Boiling Point/Range</b>	no data available
<b>Flash Point</b>	246 °C / 474.8 °F
<b>Upper flammability limit:</b>	No data available
<b>Lower Flammability Limit</b>	No data available
<b>Vapor pressure</b>	No data available
<b>Vapor Density</b>	< 1 ( Air = 1 )
<b>Specific Gravity</b>	0.888
<b>Water solubility</b>	negligible
<b>Partition Coefficient: n-octanol/water</b>	no data available
<b>Autoignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Viscosity, kinematic</b>	325.7 cSt @ 40°C

## 10. STABILITY AND REACTIVITY

<b><u>reactivity</u></b>	No information available
<b><u>Chemical stability</u></b>	Stable under recommended storage conditions.
<b><u>Possibility of Hazardous Reactions</u></b>	None under normal processing.
<b><u>Conditions to Avoid</u></b>	Heat, flames and sparks. Contact with other chemicals
<b><u>Incompatible Materials</u></b>	Strong oxidizing agents. Strong acids. Strong bases.
<b><u>Hazardous Decomposition Products</u></b>	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
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<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye Contact</b>	Contact with eyes may cause irritation.
<b>Skin Contact</b>	May cause irritation.
<b>Ingestion</b>	There is no data available for this product.

## Component Information

### 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 "6407" 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)	6359 mg/kg
ATEmix (dermal)	2544 mg/kg

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Persistence and Degradability** No information available.

### Bioaccumulation

**Mobility** The product is insoluble and floats on water.

**Other Adverse Effects** No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

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**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
Diphenylamine 122-39-4		Included in waste streams: F039, K083, K104		
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
Diphenylamine 122-39-4	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	Complies
PICCS	Complies
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

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## 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 %
Residual oils (petroleum), solvent dewaxed - 64742-62-7	64742-62-7	60 - 70	
Petroleum distillates, solvent dewaxed heavy paraffinic - 64742-65-0	64742-65-0	20 - 30	
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene - 68411-46-1	68411-46-1	0.1 - 1	
21151 Proprietary Organsulfur-phosphorus Compounds - 9999-99-9	9999-99-9	0.1 - 1	
20095 Alkyl phenol - 9999-99-9	9999-99-9	0.1 - 1	
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9- - 125643-61-0	125643-61-0	0.1 - 1	
White Mineral Oil - 8042-47-5	8042-47-5	< 0.1	
N-1-naphthylaniline - 90-30-2	90-30-2	< 0.1	
Petroleum distillates, solvent dewaxed light paraffinic - 64742-56-9	64742-56-9	< 0.1	
Petroleum distillates, hydrotreated middle - 64742-46-7	64742-46-7	< 0.1	
Dilauryl Hydrogen Phosphite - 21302-09-0	21302-09-0	< 0.1	
21271 Long chain alkyl amide - 9999-99-9	9999-99-9	< 0.1	
Petroleum distillates, hydrotreated heavy naphthenic - 64742-52-5	64742-52-5	< 0.1	
Petroleum distillates, hydrotreated light - 64742-47-8	64742-47-8	< 0.1	
20095 Alkaryl Triazole - 9999-99-9	9999-99-9	< 0.1	
Methylene Bridged Polyalkyl Phenols - 68610-07-1	68610-07-1	< 0.1	
Diphenylamine - 122-39-4	122-39-4	< 0.1	1.0
Petroleum distillates, hydrotreated light naphthenic - 64742-53-6	64742-53-6	< 0.1	
Methyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate - 6386-38-5	6386-38-5	< 0.1	
4,4'-Methylenebis(2,6-di-tert-butylphenol) - 118-82-1	118-82-1	< 0.1	
Naphta (petroleum) light aromatic - 64742-95-6	64742-95-6	< 0.1	
Phenol - 108-95-2	108-95-2	< 0.1	1.0
Ortho-tert-butylphenol - 88-18-6	88-18-6	< 0.1	

### SARA 311/312 Hazard Categories

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	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
Phenol 108-95-2	1000 lb	X	X	X

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**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)
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.

**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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Revision Date 05-14-2020  
Reason for revision General Information.

**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](http://www.LElubricants.com)

**End of Safety Data Sheet**