

# SAFETY DATA SHEET

SDS: 4622 4622 MONOLEC® MULTIPLEX LUBRICANT

Issuing Date 04-24-2012 Revision Date 05-12-2020 Revision Number 4.1

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

**Product Identifier** 

Product Name 4622 MONOLEC® MULTIPLEX LUBRICANT

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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# **4622 MONOLEC® MULTIPLEX LUBRICANT**

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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 Paste Odor Hydrocarbon-like

### **Precautionary Statements - Prevention**

None.

Response

None.

Eyes

None.

Skin

None.

Inhalation

None.

Ingestion

None.

Fire

None.

Spill

None. **Storage** 

None.

**Disposal** 

None.

#### Hazards not otherwise classified (HNOC)

None

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

	Chemical name	CAS No.	Weight-%
	Petroleum distillates, hydrotreated heavy	64742-52-5	40 - 50
	naphthenic		
I	Petroleum distillates, solvent dewaxed heavy	64742-65-0	30 - 40

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paraffinic		
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	10 - 20
Residual oils (petroleum), solvent dewaxed	64742-62-7	5 - 10
antimony dialkyldithiocarbamate	15890-25-2	1 - 5

The producer of "4622" declares that it contains less than 3% DMSO extractable material by IP-346

#### 4. FIRST AID MEASURES

#### **First Aid Measures**

General Advice If symptoms develop move victim to fresh air. Show this safety data sheet to the doctor in

attendance. Do not breathe dust/fume/gas/mist/vapors/spray.

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while

rinsing. Call a physician if irritation persists.

**Skin Contact**Consult a physician if necessary. Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

**Ingestion** Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Consult a physician.

**Protection of First-aiders**Use personal protective equipment.

Most important symptoms and effects, both acute and delayed

**Symptoms** None known.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

<u>Flash Point</u> 260 °C / 500 °F

<u>Suitable Extinguishing Media</u> Water spray, Carbon dioxide (CO2), Foam, Dry chemical

<u>Unsuitable Extinguishing Media</u> Do not use a solid water stream as it may scatter and spread fire.

**Specific Hazards Arising from the** Thermal decomposition can lead to release of irritating gases and vapors.

Chemical

**Explosion Data** 

Sensitivity to Mechanical Impact Not impact sensitive.

**Sensitivity to Static Discharge** May be ignited by friction, heat, sparks or flames.

Protective Equipment and

Wear self-contained breathing apparatus and protective suit.

**Precautions for Firefighters** 

NFPA Health hazard 1 Flammability 1 Stability 1

### 6. ACCIDENTAL RELEASE MEASURES

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Personal precautions, protective equipment and emergency procedures

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

**Environmental Precautions** 

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas.

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. 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
antimony dialkyldithiocarbamate	TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 mg/m <sup>3</sup>	IDLH: 50 mg/m <sup>3</sup>
15890-25-2	-	(vacated) TWA: 0.5 mg/m <sup>3</sup>	TWA: 0.5 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	TWA: 5 ppm	TWA: 5 ppm	IDLH: 250 ppm
108-95-2	S*	TWA: 19 mg/m <sup>3</sup>	Ceiling: 15.6 ppm
		(vacated) TWA: 5 ppm	Ceiling: 60 mg/m <sup>3</sup>
		(vacated) TWA: 19 mg/m <sup>3</sup>	TWA: 5 ppm
		(vacated) S*	TWA: 19 mg/m <sup>3</sup>
		S*	

## **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

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appropriate when handling the bulk formulation.

**Skin and Body Protection** Long sleeved clothing. Protective gloves.

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 Paste appearance red

Odor Hydrocarbon-like
Odor threshold No information available

<u>Property</u> <u>Property</u>

**pH** 6 - 8

Melting Point / Freezing PointNo data availableBoiling Point/Rangeno data availableFlash Point260 °C / 500 °FUpper flammability limit:No data availableLower Flammability LimitNo data available

Lower Flammability Limit

Vapor pressure

Vapor Density

Specific Gravity

Water solubility

No data available

< 1 ( Air = 1 )

0.95

negligible

Partition Coefficient: n-octanol/waterno data availableAutoignition TemperatureNo data availableDecomposition TemperatureNo data availableViscosity, kinematicnot applicable

### 10. STABILITY AND REACTIVITY

<u>reactivity</u> No information available

<u>Chemical stability</u> Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

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

<u>Incompatible Materials</u> 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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**Eye Contact** Contact with eyes may cause irritation.

**Skin Contact** May cause irritation.

**Ingestion** There is no data available for this product.

#### Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5	> 5000 mg/kg(Rat)	> 2000 mg/kg(Rabbit)	-
Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0	> 15000 mg/kg(Rat)	> 5000 mg/kg(Rabbit)	> 2400 mg/m³ (Rat)4 h
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	> 15 g/kg(Rat)	> 5000 mg/kg(Rabbit)	-
Residual oils (petroleum), solvent dewaxed 64742-62-7	> 5000 mg/kg(Rat)	> 2000 mg/kg(Rabbit)	= 2.18 mg/L (Rat) 4 h
antimony dialkyldithiocarbamate 15890-25-2	> 16400 mg/kg (Rat)	> 16000 mg/kg ( Rabbit )	-

#### Information on toxicological effects

Symptoms No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

The producer of "4622" 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.

Chemical name	ACGIH	IARC	NTP	OSHA
Petroleum distillates, hydrotreated heavy	-	-	-	-
naphthenic 64742-52-5				

Reproductive toxicity No information available.

Target Organ Effects Central Vascular System (CVS), 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) 17680 mg/kg
ATEmix (dermal) 7009 mg/kg
ATEmix (inhalation-dust/mist) 80.6 mg/l

# 12. ECOLOGICAL INFORMATION

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#### **Ecotoxicity**

Chemical name	Algae/aquatic plants	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to daphnia and other aquatic invertebrates
Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5	-	-	-	-
Petroleum distillates, solvent dewaxed heavy paraffinic 64742-65-0	-	-	-	-
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	<u>-</u>	-	-	-
Residual oils (petroleum), solvent dewaxed 64742-62-7	<u>-</u>	LC50> 5000 mg/L Oncorhynchus mykiss 96 h	-	EC50 > 1000 mg/L 48 h

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

**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	amine Included in waste streams:			
122-39-4	-39-4 F039, K083, K104			
Phenol	Phenol U188 Inclu			
108-95-2	08-95-2 F039, K0			
	Included in			
		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
antimony dialkyldithiocarbamate 15890-25-2	Toxic
Zinc diamyldithiocarbamate 15337-18-5	Toxic
Diphenylamine 122-39-4	Toxic
Phenol 108-95-2	Toxic Corrosive

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# 14. TRANSPORT INFORMATION

**DOT** Not regulated

# 15. REGULATORY INFORMATION

## **International Inventories**

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### **U.S. Federal Regulations**

# **SARA 313**

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

Chemical name	CAS No.	Weight-%	SARA 313 - Threshold Values %
antimony dialkyldithiocarbamate - 15890-25-2	15890-25-2	1.86	1.0
Zinc diamyldithiocarbamate - 15337-18-5	15337-18-5	0.2506	1.0
Diphenylamine - 122-39-4	122-39-4	0.0075	1.0
Phenol - 108-95-2	108-95-2	0.0004	1.0

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
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):

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

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Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
antimony dialkyldithiocarbamate 15890-25-2		X		
Zinc diamyldithiocarbamate 15337-18-5		X		
Phenol 108-95-2	1000 lb	Х	X	Х

#### **CERCLA**

	Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
ſ	Phenol	1000 lb	1000 lb	RQ 1000 lb final RQ
L	108-95-2			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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**Reason for revision** General Information.

<u>Disclaimer</u>

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SDS is available at www.LElubricants.com

**End of Safety Data Sheet**