



SAFETY DATA SHEET

SDS: 4622

4622 MONOLEC® MULTIPLEX LUBRICANT

Issuing Date 04-24-2012

Revision Date 07-28-2016

Revision Number 5

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.
300 Bailey Avenue
Fort Worth, TX 76107
USA
(817) 916-3200**Emergency Telephone Number**CHEMTREC: +1-703-527-3887 (INTERNATIONAL)
1-800-424-9300 (NORTH AMERICA)

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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

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

4. FIRST AID MEASURES

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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 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.
<u>Specific Hazards Arising from the Chemical</u>	Thermal decomposition can lead to release of irritating gases and vapors.
<u>Explosion Data</u>	
<u>Sensitivity to Mechanical Impact</u>	Not impact sensitive.
<u>Sensitivity to Static Discharge</u>	May be ignited by friction, heat, sparks or flames.
<u>Protective Equipment and Precautions for Firefighters</u>	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

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.

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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 and collect in suitable container for disposal. Clean contaminated surface thoroughly.

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

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

Conditions for safe storage, including any incompatibilities

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

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

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

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
antimony dialkyldithiocarbamate 15890-25-2	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³ (vacated) TWA: 0.5 mg/m ³	IDLH: 50 mg/m ³ TWA: 0.5 mg/m ³

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly fitting safety goggles.

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

Property**Property**

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pH	6 - 8
Melting point/freezing point	No data available
Boiling Point/Range	no data available
Flash Point	260 °C / 500 °F
Vapor pressure	No data available
Vapor Density	< 1 (Air = 1)
Specific Gravity	0.95
Water solubility	negligible
Partition Coefficient: n-octanol/water	no data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity, kinematic	not applicable

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATIONInformation on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information
Inhalation	May cause irritation of respiratory tract.
Eye Contact	Contact with eyes may cause irritation.
Skin Contact	May cause irritation.
Ingestion	There is no data available for this product.

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

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Sensitization No information available.**Mutagenic Effects** No information available.

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Carcinogenicity	No information available.
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)	9200 mg/kg
ATEmix (dermal)	5723 mg/kg
ATEmix (inhalation-dust/mist)	284289 mg/l

12. ECOLOGICAL INFORMATION

<u>Marine Pollutant</u>	This product contains a chemical which is listed as a severe marine pollutant according to DOT.
<u>Ecotoxicity</u>	None known
<u>Persistence and Degradability</u>	No information available.
<u>Bioaccumulation</u>	No information available.
<u>Mobility</u>	The product is insoluble and floats on water.
<u>Other Adverse Effects</u>	No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Waste Disposal Methods	Dispose of in accordance with local regulations.
Contaminated Packaging	Do not re-use empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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

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14. TRANSPORT INFORMATIONDOT 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	Not determined
KECL	Not determined
PICCS	Not determined
AICS	Not determined

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances**U.S. Federal Regulations****SARA 313**

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

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
antimony dialkyldithiocarbamate - 15890-25-2	15890-25-2	1.86	1.0
Zinc diamylidithiocarbamate - 15337-18-5	15337-18-5	0.25	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):

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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		

CERCLA

This material does not contain any components with a CERCLA 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

16. OTHER INFORMATION

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Reason for revision Change to composition.

Disclaimer

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

End of Safety Data Sheet