

**SAFETY DATA SHEET**

SDS: 4701

4701 MONOLEC® INDUSTRIAL LUBRICANT

Issuing Date 04-24-2012

Revision Date 02-13-2019

Revision Number 2

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Product Identifier**

Product Name 4701 MONOLEC® INDUSTRIAL LUBRICANT

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Lubricant

Uses advised against Consumer use

1.3. Details of the supplier of the safety data sheet**Importer**

Master Fluid Solutions
501 W. Boundary Street
Perrysburg, OH 43551
USA
+1 419-874-7902

Manufacturer

Lubrication Engineers Inc.
1919 E. Tulsa
Wichita, KS 67216
USA
800-537-7683

For further information, please contact

techsupport@le-inc.net

1.4. Emergency telephone number

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

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Section 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture***Regulation (EC) No 1272/2008*

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label Elements**Product Identifier**

Contains Residual oils (petroleum), solvent dewaxed

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Signal word

None

Hazard Statements

EUH210 - Safety data sheet available on request

Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use, P202 - Do not handle until all safety precautions have been read and understood, P280 - Wear protective gloves/protective clothing/eye protection/face protection, P308 + P313 - IF exposed or concerned: Get medical advice/attention, P405 - Store locked up, P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other Hazards

Other hazards

May be harmful in contact with skin

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances**

Chemical name	EC-No	CAS No.	Weight-%	Classification (Reg. 1272/2008)	REACH Registration Number
antimony dialkyldithiocarbamate	Present	15890-25-2	1 - 5	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Aquatic Chronic 2 (H411)	no data available

The producer of "4701" declares that it contains less than 3% DMSO extractable material by IP-346

Full text of H- and EUH-phrases: see section 16**Section 4: FIRST AID MEASURES****4.1. Description of 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.

Inhalation

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

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Skin Contact	Consult a physician if necessary. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Call a physician if irritation persists.
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.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms None known.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES**5.1. Extinguishing media**

Suitable Extinguishing Media	Water spray, Carbon dioxide (CO2), Foam, Dry chemical
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
Flash Point	260 °C / 500 °F

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment.

Section 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

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

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

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

6.4. Reference to other sections

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See Section 12 for more information.

Section 7: HANDLING AND STORAGE**7.1. 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.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. 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.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Occupational Exposure limits**

Chemical name	European Union	The United Kingdom	France	Spain	Germany
antimony dialkyldithiocarbamate 15890-25-2	-	STEL 1.5 mg/m ³ TWA 0.5 mg/m ³	TWA 0.5 mg/m ³ C1 C2	TWA 0.5 mg/m ³	-
Chemical name	Italy	Portugal	The Netherlands	Finland	Denmark
antimony dialkyldithiocarbamate 15890-25-2	-	TWA 0.5 mg/m ³	TWA 0.5 mg/m ³	TWA 0.5 mg/m ³	TWA 0.5 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
antimony dialkyldithiocarbamate 15890-25-2	STEL 1.5 mg/m ³ TWA 0.5 mg/m ³	-	-	TWA 0.5 mg/m ³ K** STEL 1.5 mg/m ³	TWA 0.5 mg/m ³ STEL 1.5 mg/m ³
Chemical name	Hungary	Belgium	Czech Republic	Greece	Sweden
antimony dialkyldithiocarbamate 15890-25-2	-	TWA 0.5 mg/m ³	TWA 0.5 mg/m ³ Ceiling 1.5 mg/m ³	TWA 0.5 mg/m ³	LLV 0.25 mg/m ³

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls**Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment**Eye/Face Protection**

Tightly fitting safety goggles.

Hand Protection

Protective gloves.

Skin and Body Protection

Long sleeved clothing.

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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.

Environmental Exposure Controls

Do not allow material to contaminate ground water system.

Section 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>Values</u>
pH	6 - 8
Melting Point / Freezing Point	No data available
Boiling point / boiling range	No data available
Flash Point	260 °C / 500 °F
Evaporation rate	No data available
Flammability (solid, gas)	No data available
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
Explosive properties	No data available
Oxidizing Properties	No data available

Section 10: STABILITY AND REACTIVITY**10.1. Reactivity**

None known.

10.2. Chemical stability

Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact Not impact sensitive.

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

10.3. Possibility of hazardous reactions

Hazardous reactions None under normal processing.

10.4. Conditions to avoid

Heat, flames and sparks.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

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10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

Section 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Acute Toxicity****Product Information**

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

The producer of "4701" declares that it contains less than 3% DMSO extractable material by IP-346

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.

Unknown Acute Toxicity 11.479% of the mixture consists of ingredient(s) of unknown toxicity.**The following values are calculated based on chapter 3.1 of the GHS document**

ATEmix (oral)	9,692.90 mg/kg
ATEmix (dermal)	3,853.10 mg/kg
ATEmix (inhalation-dust/mist)	57.11 mg/l

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, solvent dewaxed heavy paraffinic	> 15000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 2400 mg/m ³ (Rat) 4 h
Petroleum distillates, hydrotreated heavy paraffinic	> 15 g/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Residual oils (petroleum), solvent dewaxed	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h
Petroleum distillates, hydrotreated heavy naphthenic	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
antimony dialkyldithiocarbamate	> 16400 mg/kg (Rat)	> 16000 mg/kg (Rabbit)	-
Dilauryl Hydrogen Phosphite	> 10 g/kg (Rat)	> 5 g/kg (Rabbit)	-
Petroleum distillates, hydrotreated light naphthenic	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2180 mg/m ³ (Rat) 4 h
Naphtha (petroleum), heavy aromatic	> 5000 mg/kg (Rat)	> 2 mL/kg (Rabbit)	> 590 mg/m ³ (Rat) 4 h
4,4'-Methylenebis(2,6-di-tert-butylphenol)	> 5000 mg/kg (Rat)	> 1400 mg/kg (Rabbit)	-
Naphta (petroleum) light aromatic	= 8400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 3400 ppm (Rat) 4 h
Phenol	= 340 mg/kg (Rat) = 317 mg/kg (Rat)	= 630 mg/kg (Rabbit)	= 316 mg/m ³ (Rat) 4 h
Ortho-tert-butylphenol	= 440 mg/kg (Rat)	= 705 mg/kg (Rat)	= 1070 mg/m ³ (Rat) 4 h

Skin corrosion/irritation No information available.**Serious eye damage/eye irritation** No information available.**Sensitization** No information available.

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Mutagenic Effects No information available.**Carcinogenic Effects**

Chemical name	European Union
antimony dialkyldithiocarbamate	Category 2

Reproductive toxicity No information available.**STOT - single exposure** No information available.**STOT - repeated exposure** No information available.**Target Organ Effects** Central Vascular System (CVS), Respiratory system, Eyes, Skin.**Aspiration Hazard** No information available.**Section 12: ECOLOGICAL INFORMATION****12.1. Toxicity****Ecotoxicity****12.2. Persistence and degradability**

No information available.

12.3. Bioaccumulative potential

No information available

12.4. Mobility in soil**Mobility in soil** No information available.**Mobility** The product is insoluble and floats on water.**12.5. Results of PBT and vPvB assessment**

No information available.

12.6. Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

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Waste from Residues/Unused Products	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.
OTHER INFORMATION	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORT INFORMATION

IMDG	Not regulated
ADR/RID	Not regulated
ICAO/IATA	Not regulated

Section 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Water hazard class (WGK)	2
International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Not determined
ENCS	Not determined
IECSC	Not determined
KECL	Not determined
PICCS	Not determined
AICS	Not determined

Legend

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

15.2. Chemical safety assessment No information available**Section 16: OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3**

H301 - Toxic if swallowed
H302 - Harmful if swallowed
H311 - Toxic in contact with skin
H314 - Causes severe skin burns and eye damage

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H331 - Toxic if inhaled

H332 - Harmful if inhaled

H341 - Suspected of causing genetic defects

H373 - May cause damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects

Issuing Date 04-24-2012**Revision Date** 02-13-2019**Reason for revision** Formulation.**Disclaimer**

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

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