

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 02/19/2020 Version: 1.0

#### **SECTION 1: Identification** Identification 1.1. Product form : Mixture Product name : LML SPL-460 #2, 3M 1.2. Recommended use and restrictions on use Use of the substance/mixture : Lubricant Restrictions on use : No additional information available 1.3. Supplier Loadmaster Lubricants, LLC 13615 Fenway Blvd. Ct. N Hugo, MN 55038 T 651-656-2225 - F 651-653-3402 1.4. Emergency telephone number Emergency number : CHEMTREC (24hrs): 1-800-424-9300 SECTION 2: Hazard(s) identification

# 2.1. Classification of the substance or mixture

### **GHS** classification

Skin sensitisation, Category 1 H317 May cause an allergic skin reaction. Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

### GHS-US labelling

Hazard pictograms (GHS)

Signal word (GHS)	: Warning
Hazard statements (GHS)	: H317 - May cause an allergic skin reaction.
Precautionary statements (GHS)	<ul> <li>P261 - Avoid breathing mist, spray, vapours.</li> <li>P272 - Contaminated work clothing must not be allowed out of the workplace.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P302+P352 - If on skin: Wash with plenty of water.</li> <li>P321 - Specific treatment (see supplemental first aid instruction on this label).</li> <li>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</li> <li>P363 - Wash contaminated clothing before reuse.</li> <li>P501 - Dispose of contents/container to hazardous or special waste collection point, in</li> </ul>

accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS\_US)

Not applicable

# **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not applicable

# 3.2. Mixtures

Name	Product identifier	%	GHS classification
Lithium carboxylate complex soap	(CAS-No.) Trade secret	5 - 10	Acute Tox. 4 (Oral), H302
Thiadiazole 1	(CAS-No.) Trade secret	0.5 - 1.5	Skin Sens. 1B, H317

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Name	Product identifier	%	GHS classification
Thiadiazole 2	(CAS-No.) Trade secret	0.1 - 0.5	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
Thiadiazole 3	(CAS-No.) Trade secret	0.1 - 0.5	Skin Sens. 1B, H317 Aquatic Chronic 2, H411

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures		
4.1.	Description of first aid measures	
First-a	id measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-a	id measures after inhalation	: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-a	id measures after skin contact	<ul> <li>Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.</li> </ul>
First-a	id measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-a	id measures after ingestion	: Rinse mouth. Do NOT induce vomiting. If sysmptoms persist, contact a doctor or physician.
4.2.	Most important symptoms and ef	fects (acute and delayed)
Sympt	oms/effects after inhalation	: Inhalation of vapours may cause respiratory irritation.
Sympt	oms/effects after skin contact	<ul> <li>May cause an allergic skin reaction. Repeated or prolonged skin contact may cause dermatitis and defatting.</li> </ul>

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures			
5.1.	Suitable (and unsuitable) extinguishing media		
Suitable	extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.	
Unsuita	ble extinguishing media	: Do not use a heavy water stream.	
5.2.	Specific hazards arising from	n the chemical	
Fire haz	ard	: Burning produces irritating, toxic and noxious fumes.	
5.3.	5.3. Special protective equipment and precautions for fire-fighters		
Firefight	ing instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.	
Protecti	on during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.	

# **SECTION 6: Accidental release measures**

6.1. Personal pre	Personal precautions, protective equipment and emergency procedures		
General measures	: Avoid all eye and skin contact and do not breathe vapour and mist.		
6.1.1. For non-eme	rgency personnel		
Protective equipment	: Refer to section 8.2.		
Emergency procedures	: Evacuate unnecessary personnel.		
6.1.2. For emergen	cy responders		
Protective equipment	: Refer to section 8.2.		
Emergency procedures	: Ventilate area.		
<b>6.2. Environment</b> Prevent entry to sewers	al precautions and public waters.		
,	material for containment and cleaning up		
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.		

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Methods for cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing mist, spray, vapours. Avoid contact with skin, eyes and clothing.	
Hygiene measures	: Do not eat, drink or smoke when using this product. Remove contaminated clothing. Wash contaminated clothing before reuse.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions	: Keep only in the original container. Keep container closed when not in use.	
Incompatible products	: Strong oxidizers.	
Incompatible materials	: Sources of ignition. Direct sunlight.	

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

Lithium carboxylate complex soap (Trade secret)
Not applicable
Thiadiazole 1 (Trade secret)
Not applicable
Thiadiazole 3 (Trade secret)
Not applicable
Thiadiazole 2 (Trade secret)
Not applicable

### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Avoid creating mist or spray. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation.

### 8.3. Individual protection measures/Personal protective equipment

### Personal protective equipment:

Avoid all unnecessary exposure.

### Hand protection:

Use rubber gloves.

### Eye protection:

Chemical goggles or safety glasses

### **Respiratory protection:**

None under normal use

## Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties		
9.1. Information on basic	physical and chemical properties	
Physical state	: Liquid	
Appearance	: Opaque. Paste.	
Colour	: Gray	
Odour	: mild petroleum	
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Odour threshold	: No data available
рН	: 7-7.2
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 371 °C
Flash point	: > 204 °C
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: <1 mm Hg @ 20 °C
Relative vapour density at 20 °C	: No data available
Relative density	: 0.9174
Solubility	: Water: < 5 %
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 460 mm²/s @ 40 °C
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
9.2. Other information	
NOO	0 "

### VOC content

: 0 g/l

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

## 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong oxidizers.

### 10.6. Hazardous decomposition products

hydrocarbons. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information		
11.1. Information on toxicologi	cal effects	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
Lithium carboxylate complex soap (Trade secret)		
LD50 dermal rat	> 2000  mg/kg	

LD50 dermal rat	> 2000 mg/kg
ATE (oral)	500 mg/kg bodyweight
Thiadiazole 1 (Trade secret)	
LD50 oral rat	6480 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
ATE (oral)	6480 mg/kg bodyweight
Thiadiazole 3 (Trade secret)	
LD50 oral rat	> 2500 mg/kg
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Thiadiazole 3 (Trade secret)	
LD50 dermal rat	> 2000 mg/kg
Thiadiazole 2 (Trade secret)	
ATE (dust,mist)	1.5 mg/l/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: 460 mm²/s @ 40 °C
Likely routes of exposure	: Inhalation. Skin and eye contact.
Symptoms/effects after inhalation	: Inhalation of vapours may cause respiratory irritation.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Repeated or prolonged skin contact may cause dermatitis and defatting.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Lithium carboxylate complex soap (Trade secret)	
LC50 fish 1	> 100 mg/l 96 h
Thiadiazole 3 (Trade secret)	
LC50 fish 1	> 100 mg/l 96 h
EC50 crustacea	18 mg/l 48 h
NOEC (acute)	0.56 mg/l Daphnia 48 h

## 12.2. Persistence and degradability

LML SPL-460 #2, 3M	
Persistence and degradability	Not established.
Thiadiazole 3 (Trade secret)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	41 % 28 d

### 12.3. Bioaccumulative potential

LML SPL-460 #2, 3M	
Bioaccumulative potential	Not established.

# 12.4. Mobility in soil

LML SPL-460 #2, 3M	
Ecology - soil	Not established.

### 12.5. Other adverse effects

Other information

: Avoid release to the environment.

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

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### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Not regulated.

### Transport by sea

Not regulated.

### Air transport

Not regulated.

# **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

### 15.2. International regulations

## -----

CANADA
Lithium carboxylate complex soap (Trade secret)
Listed on the Canadian DSL (Domestic Substances List) inventory.
Thiadiazole 1 (Trade secret)
Listed on the Canadian DSL (Domestic Substances List) inventory.
Thiadiazole 3 (Trade secret)
Listed on the Canadian DSL (Domestic Substances List) inventory.
Thiadiazole 2 (Trade secret)
Listed on the Canadian DSL (Domestic Substances List) inventory.
EU-Regulations
lo additional information available
Thiadiazole 1 (Trade secret)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Thiadiazole 3 (Trade secret)
Not listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) Listed on ELINCS (European List of Notified Chemical Substances)

### Thiadiazole 2 (Trade secret)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

### National regulations

### LML SPL-460 #2, 3M

All components are listed on the AICS (Australian Inventory of Chemical Substances). All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

#### Lithium carboxylate complex soap (Trade secret)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on Taiwan National Chemical Inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

### Thiadiazole 1 (Trade secret)

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on Taiwan National Chemical Inventory

Listed on NZIoC (New Zealand Inventory of Chemicals)

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Thiadiazole 1 (Trade secret)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Thiadiazole 3 (Trade secret)
Listed on the AICS (Australian Inventory of Chemical Substances)
Thiadiazole 2 (Trade secret)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECI (Korean Existing Chemicals Inventory)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on Taiwan National Chemical Inventory
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## **SECTION 16: Other information**

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Data sources

: ACGIH (American Conference of Government Industrial Hygienists). Canadian Centre for Occupational Health and Safety. Accessed at: http://www.ccohs.ca/oshanswers/legisl/whmis\_classifi.html. European Chemicals Agency (ECHA) C&L Inventory database. Accessed at http://echa.europa.eu/web/guest/informationon-chemicals/cl-inventory-database. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition. TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html. OSHA 29CFR 1910.1200 Hazard Communication Standard. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Manufacturer Information. Australia Worksafe "Preparation of Safety Data Sheets for Hazardous Chemicals".

### Other information

### Full text of H-statements:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.

#### Abbreviations and acronyms:

ATE: Acute Toxicity Estimate
CAS (Chemical Abstracts Service) number
EC50: Environmental Concentration associated with a response by 50% of the test population.
GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
LD50: Lethal Dose for 50% of the test population
TSCA: Toxic Substances Control Act
STEL: Short Term Exposure Limits
TWA: Time Weighted Average

<sup>:</sup> None.

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NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.

SDS Prepared by: The Redstone Group 110 Polaris Pkwy Suite 200 Westerville, OH USA 43082 P: +1 (614) 923-7472 www.redstonegrp.com

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.