

## SAFETY DATA SHEET

SDS: 451

### 451 WIRELIFE® ALMASOL® COATING GREASE

Issuing Date 04-24-2012

Revision Date 05-12-2020

Revision Number 2.1

#### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. Product Identifier

Product Name 451 WIRELIFE® ALMASOL® COATING GREASE

##### 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

###### Supplier (manufacturer/importer/only representative/downstream user/distributor)

HH Compliance  
Rubicon Centre,  
CIT Campus,  
Bishopstown,  
Cork,  
Ireland  
T12 Y275  
+353-21-4868121

###### 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)

<b>Austria</b>	Vergiftungsinformationszentrale (AT): +43-(0)1-406 43 43
<b>Belgium</b>	Poison center (BE): +32 70 245 245
<b>Denmark</b>	Poison Control Hotline (DK): +45 82 12 12 12
<b>Finland</b>	Poison Information Centre (FI): +358 9 471 977
<b>France</b>	ORFILA (FR): + 01 45 42 59 59
<b>Germany</b>	Poison Center Berlin (DE): +49 030 30686 790
<b>Ireland</b>	National Poisons Information Centre (IE): +353 1 8379964
<b>Italy</b>	Poison Center, Milan (IT): +39 02 6610 1029
<b>Netherlands</b>	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
<b>Norway</b>	Poisons Information (NO): + 47 22 591300
<b>Poland</b>	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97
<b>Portugal</b>	Poison Information Center (PT): +351 21 330 3284
<b>Spain</b>	Poison Information Service (ES): +34 91 562 04 20

SDS: 451

**451 WIRELIFE® ALMASOL® COATING GREASE**

Issuing Date 04-24-2012

Revision Date 05-12-2020

Revision Number 2.1

Sweden	Poisons Information Center (SV): +46 8 33 12 31
Switzerland	Poison Center: Tel 145; +41 44 251 51 51
United Kingdom	NHS Direct (UK): +44 0845 46 47

**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**

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

**Signal word**

None

**Hazard Statements**

None

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

None

**2.3. Other Hazards**

No information available

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

The producer of "451" 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. Consult a physician. If not breathing, give artificial respiration.

**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.

**Ingestion**

May cause adverse kidney effects. Drink plenty of water. Do NOT induce vomiting.

SDS: 451

**451 WIRELIFE® ALMASOL® COATING GREASE**

Issuing Date 04-24-2012

Revision Date 05-12-2020

Revision Number 2.1

**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 (CO<sub>2</sub>), Foam, Dry chemical

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

**Flash Point** 203 °C / 397.4 °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. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low 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**

See Section 12 for more information.

**Section 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

SDS: 451

**451 WIRELIFE® ALMASOL® COATING GREASE**

Issuing Date 04-24-2012

Revision Date 05-12-2020

Revision Number 2.1

**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**

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**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**

No special protective equipment required.

**Hand Protection**

No special protective equipment required.

**Skin and Body Protection**

No special protective equipment required.

**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 brown

**Odor**

Hydrocarbon-like

**Odor threshold**

No information available

**Property****Values****pH**

6 - 8

**Melting Point / Freezing Point**

No data available

**Boiling point / boiling range**

No data available

**Flash Point**

203 °C / 397.4 °F

**Evaporation rate**

No data available

**Flammability (solid, gas)**

No data available

SDS: 451

**451 WIRELIFE® ALMASOL® COATING GREASE**

Issuing Date 04-24-2012

Revision Date 05-12-2020

Revision Number 2.1

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.

**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 "451" declares that it contains less than 3% DMSO extractable material by IP-346

<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.

SDS: 451

**451 WIRELIFE® ALMASOL® COATING GREASE**

Issuing Date 04-24-2012

Revision Date 05-12-2020

Revision Number 2.1

**Ingestion**

There is no data available for this product.

**Unknown Acute Toxicity**

20% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

**Component Information**

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, hydrotreated heavy naphthenic	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-
Lubricating oils (petroleum), hydrotreated spent	> 2000 mg/kg ( Rat )	> 4480 mg/kg ( Rabbit )	-
Titanium Dioxide	> 10000 mg/kg ( Rat )	-	-
Iron Oxide	> 10000 mg/kg ( Rat )	-	-
Petroleum distillates, hydrotreated light naphthenic	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 2180 mg/m <sup>3</sup> ( Rat ) 4 h

**Skin corrosion/irritation**

No information available.

**Serious eye damage/eye irritation**

No information available.

**Sensitization**

No information available.

**Mutagenic Effects**

No information available.

**Carcinogenic Effects**

No information available

**Reproductive toxicity**

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**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**

SDS: 451

**451 WIRELIFE® ALMASOL® COATING GREASE**

Issuing Date 04-24-2012

Revision Date 05-12-2020

Revision Number 2.1

**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****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)** 1**International Inventories**

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

SDS: 451

**451 WIRELIFE® ALMASOL® COATING GREASE**

Issuing Date 04-24-2012

Revision Date 05-12-2020

Revision Number 2.1

AICS

Not determined

**Legend****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL** - 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**

No information available

**Issuing Date** 04-24-2012**Revision Date** 05-12-2020**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**