



## PRODUCT INFORMATION SHEET

### CARLUBE LM2 LITHIUM GREASE

#### DESCRIPTION

Carlube LM2 Lithium Grease is a high-quality, multipurpose, non-EP Grease. It is manufactured with high-quality base oils thickened with Lithium Hydroxy-Stearate soap. Provides excellent protection at high temperature and superior resistance to corrosion and water washout.

#### ADVANTAGES

- Good high-temperature properties
- Good low-temperature fluidity
- Good water resistance
- Excellent anti-wear protection
- Excellent corrosion protection
- Excellent storage stability

#### APPLICATION

Carlube LM2 Lithium Grease can be is commonly used for applications such as wheel bearings, window regulators, door hinges, and seat mechanisms for passenger cars and vans. It is also recommended for industrial applications requiring this type of grease.

#### PROPERTIES

Color	Light Brown	
Texture	Smooth	
Soap Type	Lithium Hydroxy-Stearate	
NLGI	2	
Worked Penetration	265 – 295	
Service Temperature Range (°C)	-30 to 120	
Drop Point (°C)	180 Typical	
Base Oil Properties	Kinematic Viscosity @ 40°C	150 Min
	Viscosity Index	80 Min

#### AVAILABILITY

70gram – XMG070  
3kg – XMG003

400gram – XMG030 (Cartridge)  
12.5kg – XMG125

500gram – XMG500

**DISCLAIMER**

This Product Information Sheet does not constitute to any extent a fitness for purpose warranty or a quality specification. It is intended to be indicative only of the general characteristics of the product(s) and may not be relied upon (in whole or in part) in substitution of nor as a supplement to any of the information and/or instructions and/or warnings set out on the product(s) and/or on any packaging and/or in the relevant Safety Data Sheet (which is available on request).

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Users of a product or products marked "For Professional Use Only are deemed to declare and acknowledge for themselves professional levels of skill, knowledge, competence and experience in the selection and use of such product(s).

Product Information Sheets are updated from time to time and inquiries should be made on a regular basis to ensure that this is the latest version available.

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## SAFETY DATA SHEET LM2 GREASE

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

#### 1.1. Product identifier

Product name LM2 GREASE  
Product No. XMG003, XMG030, XMG050, XMG125, XMG500, GRE007, XMG070, ADS015, ADP015

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

Identified uses Grease

#### 1.3. Details of the supplier of the safety data sheet

Supplier TETROSYL LIMITED  
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#### 1.4. Emergency telephone number

0161 764 5981

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification (1999/45/EEC) Not classified.  
Human health  
See section 11 for additional information on health hazards.

#### 2.2. Label elements

Risk Phrases	NC	Not classified.
Safety Phrases	S2 S46	Keep out of the reach of children. If swallowed, seek medical advice immediately and show this container or label.

#### 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

### SECTION 4: FIRST AID MEASURES

**LM2 GREASE****4.1. Description of first aid measures**

## General information

Remove affected person from source of contamination. Get medical attention if any discomfort continues.

## Inhalation

Get medical attention if any discomfort continues.

## Ingestion

Consult a physician for specific advice.

## Skin contact

Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above.

## Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Do not rub eye.

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

## General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

NOTE! Effects may be delayed. Keep affected person under observation.

## Inhalation.

May cause an asthma-like shortness of breath. Vapours may cause headache, fatigue, dizziness and nausea.

## Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication.

## Skin contact

Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. Allergic rash.

## Eye contact

May cause temporary eye irritation.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

**SECTION 5: FIREFIGHTING MEASURES****5.1. Extinguishing media**

## Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

## Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture**

## Hazardous combustion products

During fire, toxic gases (CO, CO<sub>2</sub>) are formed.

## Unusual Fire &amp; Explosion Hazards

No unusual fire or explosion hazards noted.

## Specific hazards

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

**5.3. Advice for firefighters**

## Special Fire Fighting Procedures

No specific fire fighting procedure given.

## Protective equipment for fire-fighters

Leave danger zone immediately.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

## LM2 GREASE

### 6.1. Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8. In case of spills, beware of slippery floors and surfaces.

### 6.2. Environmental precautions

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

### 6.3. Methods and material for containment and cleaning up

For waste disposal, see section 13. When dealing with a spillage, please consult the section relating to suitable protective measures. Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb spillage with non-combustible, absorbent material.

### 6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Avoid forming spray/aerosol mists. Provide good ventilation. Avoid contact with skin and eyes. Always remove oil with soap and water or skin cleaning agent, never use organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags moistened with oil into pockets.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep upright. Store in tightly closed original container.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

### 8.2. Exposure controls

Protective equipment



Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.

Engineering measures

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

Respiratory equipment

No specific recommendations.

Hand protection

Protective gloves should be used if there is a risk of direct contact or splash. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Eye protection

Wear approved, tight fitting safety glasses where splashing is probable.

Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

Wash contaminated clothing before reuse. Wash promptly with soap & water if skin becomes contaminated.

**LM2 GREASE****SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Appearance	Grease
Colour	Light brown.
Odour	Characteristic.
Solubility	Insoluble in water
Initial boiling point and boiling range	>250°C
Melting point (°C)	Scientifically unjustified.
Relative density	0.9 20°C
Vapour density (air=1)	Scientifically unjustified.
Vapour pressure	Scientifically unjustified.
Evaporation rate	Scientifically unjustified.
Viscosity	>30, 000 cps 20°C
Decomposition temperature (°C)	Scientifically unjustified.
Odour Threshold, Lower	Scientifically unjustified.
Odour Threshold, Upper	Scientifically unjustified.
Flash point (°C)	>150°C
Auto Ignition Temperature (°C)	Scientifically unjustified.
Flammability Limit - Lower(%)	Scientifically unjustified.
Flammability Limit - Upper(%)	Scientifically unjustified.
Partition Coefficient (N-Octanol/Water)	Scientifically unjustified.
Oxidising properties	Not available.

**9.2. Other information**

None.

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

No specific reactivity hazards associated with this product.

**10.2. Chemical stability**

No particular stability concerns.

**10.3. Possibility of hazardous reactions**

Not applicable.

**10.4. Conditions to avoid**

No specific conditions are likely to result in a hazardous situation.

**10.5. Incompatible materials**

**LM2 GREASE**

## Materials To Avoid

No incompatible groups noted.

**10.6. Hazardous decomposition products**

None under normal conditions.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

Toxicological information

No information available.

Health Warnings

Because of quantity and composition, the health hazard is small.

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**12.1. Toxicity**

Acute Toxicity - Fish

Not available.

Acute Toxicity - Aquatic Invertebrates

Not available.

**12.2. Persistence and degradability**

Degradability

There are no data on the degradability of this product.

**12.3. Bioaccumulative potential**

Bioaccumulative potential

No data available on bioaccumulation.

**12.4. Mobility in soil**

Adsorption/Desorption Coefficient

Not available.

**12.5. Results of PBT and vPvB assessment**

Not Classified as PBT/vPvB by current EU criteria.

**12.6. Other adverse effects**

Not available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements. Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.

**SECTION 14: TRANSPORT INFORMATION**

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

**14.1. UN number**

**LM2 GREASE****14.2. UN proper shipping name****14.3. Transport hazard class(es)**

ADR/RID/ADN Class Not classified for transportation.

Transport Labels

No transport warning sign required.

**14.4. Packing group****14.5. Environmental hazards****14.6. Special precautions for user****14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code****SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

General information

Only trained personnel should use this material.

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date 04/10/2011

Revision 5

Supersedes date 13/07/2005 v4

Safety Data Sheet Status Approved.

**Disclaimer**

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