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

<table>
<thead>
<tr>
<th></th>
<th>Light Brown</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td></td>
</tr>
<tr>
<td>Texture</td>
<td>Smooth</td>
</tr>
<tr>
<td>Soap Type</td>
<td>Lithium Hydroxy-Stearate</td>
</tr>
<tr>
<td>NLGI</td>
<td>2</td>
</tr>
<tr>
<td>Worked Penetration</td>
<td>265 – 295</td>
</tr>
<tr>
<td>Service Temperature Range (°C)</td>
<td>-30 to 120</td>
</tr>
<tr>
<td>Drop Point (°C)</td>
<td>180 Typical</td>
</tr>
<tr>
<td>Kinematic Viscosity @ 40°C</td>
<td>150 Min</td>
</tr>
<tr>
<td>Viscosity Index</td>
<td>80 Min</td>
</tr>
</tbody>
</table>

AVAILABILITY

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>70gram – XMG070</td>
<td>400gram – XMG030 (Cartridge)</td>
</tr>
<tr>
<td>3kg – XMG003</td>
<td>500gram – XMG500</td>
</tr>
<tr>
<td></td>
<td>12.5kg – XMG125</td>
</tr>
</tbody>
</table>
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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This Product Information Sheet does not apply to the use of the product(s) in any combination or with other products or materials.

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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BEVIS GREEN WORKS
WALMERSLEY
BURY
BL9 6RE
0161 764 5981
0161 797 5899
info@tetrosyl.com
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
Uses advised against:

1.3. Details of the supplier of the safety data sheet
Supplier: TETROSYL LIMITED
Beverage Green Works
Walmersley
Bury
BL9 6RE
0161 764 5981
0161 797 5899
info@tetrosyl.com

1.4. Emergency telephone number
0161 764 5981

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Human health:
See section 11 for additional information on health hazards.

2.2. Label elements

Risk Phrases:
NC: Not classified.

Safety Phrases:
S2: Keep out of the reach of children.
S46: 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
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, CO2) are formed.
Unusual Fire & Explosion Hazards
No unusual fire or explosion hazards noted.
Specific hazards
Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

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.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

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

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


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

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.

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