

SECTION 1 - Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product name	Lithium EP2 LVX M2
Product number	0251/0740
Product reference	CV grease

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

Identified uses	Lubricating grease
Uses advised against	No specific uses advised against are identified
Reasons	Not applicable

1.3. Details of the supplier of the safety data sheet

Company	Bailcast Limited
Address	Unit 8 Chorley North Industrial Park Chorley Lancashire PR6 7BX United Kingdom +44 (0) 1257 266 060 enquiries@bailcast.com

1.4. Emergency telephone number

Emergency telephone	+44 (0) 1257 266 060 08:30 – 16:00 GMT, Mon – Thur 08:30 – 15:00 GMT, Fri
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SECTION 2 - Hazards identification

2.1. Classification of the substance or mixture - according to Regulation (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified
Additional Information	Not applicable

2.2. Label elements - according to Regulation (EC 1272/2008)

Hazard pictograms	Not Classified
Signal Word	Not Classified
Hazard statements	Not Classified
Precautionary statements	Not Classified

2.3. Other hazards

Other hazards	This product does not contain any substances classified as PBT or vPvB.
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SECTION 3 - Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Description of the mixture	Phosphorodithioic acid, O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr)esters, zinc salts
REACH registered number	01- 2119521201-61-0000

EINECS	CAS	PBT/WEL	CLP Classification	Percent
288-917-4	85940-28-9		H315 - Causes skin irritation H319 - Causes serious eye irritation H411 - Toxic to aquatic life with long lasting effects	1-2.5%

The Full Text for all Hazard and Precautionary Statements are Displayed in Section 16.

SECTION 4 – First aid measures

4.1. Description of first aid measures

General information	If in doubt, get medical attention promptly. Show this Safety Data Sheet to the medical personnel.
Inhalation	No specific recommendations. If throat irritation or coughing persists, proceed as follow: P340 - Remove victim to fresh air and keep at rest in a position comfortable for breathing. P313 - Get medical advice/attention.
Skin contact	No specific recommendations. If signs of discomfort are visible proceed as follows: P352 - Wash with plenty of soap and water. P361 - Remove/Take off immediately all contaminated clothing. P332 + 313 - If skin irritation occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse.
Eye contact	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P313 - Get medical advice/attention.
Ingestion	No specific recommendations. If throat irritation or coughing persists, proceed as follows. P330 - Rinse mouth. P313 - Get medical advice/attention.
Protection of first aiders	Use protective equipment appropriate for surrounding materials.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	No specific symptoms known. May be slightly irritating to eyes.
Ingestion	No specific symptoms known. May cause discomfort if swallowed.
Delayed/immediate effects	Not applicable

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

Notes for the doctor	Treat symptomatically.
Special treatments	No special treatment required.

SECTION 5 – Firefighting measures5.1. Extinguishing media

Suitable media | The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable 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

Specific hazards | None known.

Hazardous combustion products | Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

5.3. Advice for fire-fighters

Protective actions during firefighting | Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for firefighters | Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

5.4. Additional information

Additional information | Not Applicable

SECTION 6 – Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions | No specific recommendations. Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

Environmental precautions | P273 - Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment | Reuse or recycle products wherever possible. Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely.

For cleaning up | Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of contents/container in accordance with national regulations.

Other information | Not Applicable

6.4. Reference to other sections

Reference to other sections | For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7 – Handling and storage

7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. P233 - Keep container tightly closed.
Advice on general occupational hygiene	P302 + P352 - IF ON SKIN: Wash with plenty of water. P362 - Take off contaminated clothing. P363 - Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store away from incompatible materials (see Section 10). No specific recommendations.
Storage class	Unspecified storage.
Suitable packaging	Unspecified storage.

7.3. Specific end use(s)

Specific end uses	The identified uses for this product are detailed in Section 1.2.
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SECTION 8 – Exposure controls/personal protection

8.1. Control parameters

Not applicable

8.2. Exposure controls

Engineering measures	No specific ventilation requirements.
Respiratory protection	No specific recommendations. Provide adequate ventilation. Large Spillages: If ventilation is inadequate, suitable respiratory protection must be worn.
Hand protection	No specific hand protection recommended. Large Spillages: Wear protective gloves.
Eye protection	No specific eye protection required during normal use. Large Spillages: Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
Skin protection	See above.
Environment exposure	Not regarded as dangerous for the environment.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

SECTION 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Grease	
Physical state	Not applicable	
Colour	Grey to Black	
Odour	Almost odourless	
Odour threshold	No information available	
pH	Not applicable	
Melting point/range °C	>185°C	
Initial boiling point/range °C	No information available	
Flash point	> 200°C	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability or explosive limits	Lower Not available	Upper Not available
Vapour pressure	No information available	
Vapour density	No information available	
Relative density	No information available	
Solubility(ies)	Insoluble in water.	
Partition coefficient	No information available	
Auto-ignition temperature	No information available	
Decomposition Temperature	No information available	
Viscosity	Dynamic Not available	Kinematic 150 cSt @ 40°C
Explosive properties	Not considered to be explosive	
Oxidising properties	Not applicable	

9.2. Other information

Other information	Not applicable
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SECTION 10 – Stability and reactivity

10.1. Reactivity

Reactivity | See the other subsections of this section for further details.

10.2. Chemical stability

Chemical stability | Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions | No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid | There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid | No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.6. Hazardous decomposition products

Hazardous decomposition products | Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

SECTION 11 – Toxicological information

11.1. Information on toxicological effects

Toxicological effects	Not regarded as a health hazard under current legislation
Acute toxicity – oral ^(LD₅₀)	Based on available data the classification criteria are not met.
Acute toxicity – dermal ^(LD₅₀)	Based on available data the classification criteria are not met
Acute toxicity – inhalation ^(LC₅₀)	Based on available data the classification criteria are not met
Skin corrosion/irritation	Based on available data the classification criteria are not met.
Serious eye damage/irritation	Based on available data the classification criteria are not met.
Respiratory sensitisation	Based on available data the classification criteria are not met.
Skin sensitisation	Based on available data the classification criteria are not met.
Genotoxicity - in vitro	Based on available data the classification criteria are not met.
Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt
Reproductive toxicity - fertility	Based on available data the classification criteria are not met.
Reproductive toxicity - development	Based on available data the classification criteria are not met.
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure
Aspiration hazard	Not relevant. Solid
General information	No specific health hazards known. The severity of the symptoms described will vary dependent on the concentration and the length of exposure
Inhalation	No specific symptoms known
Ingestion	No specific symptoms known. May cause discomfort if swallowed
Skin contact	Prolonged contact may cause dryness of the skin
Eye contact	No specific symptoms known. May be slightly irritating to eyes
Route of exposure	Ingestion, Inhalation, Skin and/or eye contact
Target organs	No specific target organs known

SECTION 12 – Ecological Information

12.1. Toxicity

Toxicity	Based on available data the classification criteria are not met.
Ecotoxicity	Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

12.2. Persistence and degradability

Persistence and degradability	The degradability of the product is not known.
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12.3. Bio accumulative potential

Bio accumulative potential	No data available on bioaccumulation.
Partition coefficient	No information available.

12.4. Mobility in soil

Mobility	No data available.
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12.5. Results of PBT and vPvB assessment

PBT identification	None known.
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12.6. Other adverse effects

Other adverse effects	None known.
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SECTION 13 – Disposal considerations

13.1. Waste treatment methods - Directive 2008/98/EC (Waste Framework Directive)

General information	Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by Directive 2008/98/EC. The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way.
Disposal methods	Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.
Waste code number	None known.
Disposal of packaging	Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14 – Transport information

14.1. UN number

UN number		Not applicable
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14.2. UN proper shipping name

Shipping name		Not applicable
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14.3. Transport hazard class(es)

Transport class		The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID)	Hazard label(s)		No transport warning sign required.
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14.4. Packing group

Packing group		Not applicable
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14.5. Environmental hazards

Environmentally hazardous		Environmentally hazardous substance	Marine pollutant		No
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14.6. Special precautions for user

Special precautions		Not applicable
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14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL and the IBC Code		Not applicable
Additional information		Not applicable

SECTION 15 – Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	Health and Safety at Work etc. Act 1974 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
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) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015. 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 (as amended).

15.2. Chemical safety assessment

Chemical safety assessment | No chemical safety assessment has been carried out

Inventories

US - TSCA	None of the ingredients are listed or exempt
12(b) Export Notification	None of the ingredients are listed or exempt

SECTION 16 – Other information

Other information	<p>This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830 - The Classification, Labelling and Packaging Regulations (The "CLP" Regulations)</p> <p>Some information in this datasheet was sourced from third parties including: European Chemicals Agency, http://echa.europa.eu/</p> <p>UNECE, http://www.unece.org/</p>
Abbreviations and acronyms	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>CAS: Chemical Abstracts Service.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>LC50: Lethal Concentration to 50 % of a test population.</p> <p>LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>EC50: 50% of maximal Effective Concentration.</p> <p>PBT: Persistent, Bio accumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bio accumulative.</p>
Training advice	<p>Only trained personnel should use this material.</p>
Hazard statements in full	<p>H315 - Causes skin irritation.</p> <p>H319 - Causes serious eye irritation.</p> <p>H411 - Toxic to aquatic life with long lasting effects</p>
Legal disclaimer	<p>The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.</p>