



EXCELLENCE IN LUBRICANTS

SAFETY DATA SHEET

Lithium Complex



EXOL LUBRICANTS LIMITED

ALL SAINTS ROAD, WEDNESBURY, WEST MIDLANDS, ENGLAND, WS10 9LL

TEL: +44 (0) 121 568 6800 • FAX: +44 (0) 121 568 6720

WWW.EXOL-LUBRICANTS.COM



SAFETY DATA SHEET

Lithium Complex

Product Code: Z011

SECTION 1	IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF COMPANY/UNDERTAKING
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1.1 Product Identifier	Lithium Complex
Product Code	Z011 VLB1033, VLB1036
1.2 Relevant identified uses of the substance or mixture and uses advised against	Lubricating grease Do not use in any other application.
1.3 Company	Exol Lubricants Limited All Saints Road Wednesbury, West Midlands, WS10 9TS
1.4 Emergency Telephone Number	+44 (0) 121 568 6800 (Monday – Friday 08.30 – 17.00 hrs GMT)
1.5 Other Information	Preparation Date: 26/10/2015

SECTION 2	HAZARD IDENTIFICATION
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2.1 Classification of the substance or mixture	CLP Classification: No classification required Not classified as dangerous for the Environment Classification to DPD (1999/45/EC) and CHIP No classification required
See section 16 for full text of H and R phrases	
2.2 Label Elements	Labelling in accordance with CLP None Labelling in accordance with CHIP None
2.3 Other Hazards	PBT: This substance is not identified as a PBT substance.

SECTION 3	COMPOSITION/ INFORMATION ON INGREDIENTS
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3.2 Mixtures				
Hazardous Ingredients	CAS No./EC No.	REACH Reg. No.	GHS Classification	Conc. %
Phosphorodithioic acid, mixed O, O-bis (2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	85940-28-9	01-211952121-61	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	<2.5
Red Dye	56358-9-9	01-2119974149-26	Asp. Haz. 1; H304	<0.25
	57712-94-4	Pre-Registered	Flam. Liq. 3; H226	
	919-284-0	01-2119463588-24	Tox. Acute 4; H312	
	926-273-4	01-2119451151-53	Skin Irrit. 2; H315	
	65087-00-5	Pre-Registered	Skin Sens. 1B; H317	
	68310-04-3	Pre-Registered	Eye Irrit. 2; H319	
	29190-28-1	Pre-Registered	Tox. Acute 4; H332	
	1330-20-7	01-2119488216-32	Carcinogen 2; H351	
	100-41-4	01-2119463588-24	STOT SE 3; H335	
	91-20-3	01-2119451151-53	STOT SE 3; H336 STOT RE 2; H373	
			Aquatic Chronic 2; H411	

The Mineral oil contains less than 3 % DMSO extract as measured by IP 346.

SECTION 4	FIRST AID MEASURES
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4.1 Description of first aid measures	
Eyes	Wash out eye with plenty of water. Obtain medical assistance if soreness or redness persists.



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Skin Wash skin with soap and water. If grease has been injected under the skin, seek medical advice immediately.

Ingestion Do not induce vomiting. Obtain medical attention.

Inhalation No risk from inhalation.

4.2 Most important symptoms and effects, both acute and delayed No ill effects

4.3 Indication of immediate medical attention and special treatment needed, if necessary Eye Contact: Immediately washout with plenty of water

SECTION 5 FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media** Use water spray to cool containers. Use foam, dry chemical, carbon dioxide or suitable extinguishing media.
- 5.2 Specific hazards arising from the substance or mixture** This product may give rise to hazardous fumes in a fire.
- 5.3 Advice for fire-fighters** Wear self-contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** See Section 8 for protective equipment. Wash down floor area as spillage may be slippery. Larger spillage should be contained with sand or earth and collected in salvage container for disposal.
- 6.2 Environmental precautions** Protect drains from potential spills to minimise contamination. Do not wash product into drainage system. In the case of large spills contact the appropriate authorities. In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover product from the surface. Protect environmentally sensitive areas and water supplies. Absorb into dry earth or sand. Protect drains using drain covers. Dispose of as hazardous waste.
- 6.3 Methods and material for containment and cleaning up** Personal protective equipment: See section 8
- 6.4 Reference to other sections**

SECTION 7 HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Avoid direct contact with the substance - Wear gloves. Care should be taken with dispensing equipment not to inject product under the skin.
- 7.2 Conditions for safe storage, including any incompatibilities** Store in a cool well-ventilated area.
- 7.3 Specific end use(s)** Industrial Lubricant

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
- | Country | Substance | Long Term (8 Hours TWA) | Short Term (15 Mins) |
|---------------|-----------|-------------------------|----------------------|
| None assigned | | | |
- 8.2 Exposure controls**
- | | |
|--------------------------------|------------------------------|
| Hand Protection: | PVC gloves |
| Eye Protection: | Wear approved safety goggles |
| Skin Protection: | Normal work wear |
| Respiratory Protection: | N/A |

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties** Does not constitute a specification

Typical Values

Grades:

Units

Lithium Complex

Appearance

Red with 'Sparkles', Smooth Grease

Odour

Odourless

Odour Threshold

No data available



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pH		Not applicable
Relative density	kg/l	0.82 – 0.85
Solubility - water		Insoluble
Melting Point	°C	>250
Initial boiling point and range	°C	No data available
Flash point (PMCC)	°C	>200
Flammability		Auto-flammability > 200°C
Upper/lower flammability or explosive limits		No data available
Vapour pressure	kPa (0.1 mm Hg)	Not applicable
Partition coefficient n-octanol/water	Log Pow	Not applicable
Autoignition temperature	°C	>200
Decomposition temperature		No data available
Viscosity	mm ² /s	No data available
Evaporation rate		Not applicable
Vapour density		Not applicable
Explosive properties		No data available
Oxidising properties		None

9.2 Other Information Not Applicable.

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity	Stable at ambient temperatures.
10.2 Chemical stability	Stable under normal conditions of use
10.3 Possibility of hazardous reactions	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
10.4 Conditions to avoid	Heat
10.5 Incompatible materials	Strong oxidising agents
10.6 Hazardous decomposition products	Combustion will generate: smoke, carbon dioxide and carbon monoxide.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity	
-Oral	No toxic components present at levels to cause classification.
-Inhalation	No toxic components present at levels to cause classification.
-Dermal	No toxic components present at levels to cause classification.
Corrosivity/Irritation	
-Eye	No components present that cause classification as an eye irritant.
-Skin	No components present that cause classification as a skin irritant.
-Respiratory Tract	No components present that cause classification as a respiratory irritant.
Sensitisation	
-Skin	No evidence of sensitisation effects.
-Respiratory	No evidence of sensitisation effects.
Repeated-dose Toxicity	No data available.
Mutagenicity	No evidence of mutagenicity.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive Toxicity	No evidence of reproductive toxicity.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	Not classified
12.2 Persistence and Degradability	Only slightly biodegradable.
12.3 Bioaccumulative Potential	This product, as supplied, is not expected to bio-accumulate.
12.4 Mobility in Soil	This product is poorly absorbed onto soils or sediments. Non-volatile.
12.5 Results of PBT and vPvB Assessment	This substance is not identified as a PBT or a vPvB substance.



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12.6 Other Adverse Effects

None known.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Send to registered waste disposal site using services of a registered waste disposal contractor. Disposal of packaging: Dispose of as normal industrial waste. **NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14 TRANSPORT INFORMATION

Not classified as dangerous goods for carriage under ADR/RID/AND/IMDG/ICAO/IATA regulations.

14.1 UN Number None

14.2 UN Proper Shipping Name None

14.3 Transport Hazard Class None

14.4 Packing Group None

14.5 Environmental Hazards Not classified as an Environmentally hazardous substance/Marine Pollutant

14.6 Special Precautions for User

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable to packaged goods

SECTION 15 REGULATORY INFORMATION

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

Supply regulations: DPD: Dangerous Preparations Directive; GHS: Globally Harmonised System of classification and labelling of chemicals; CLP: Classification, Labelling and Packaging regulations. Transport regulations: CDG: Carriage of Dangerous Goods regulations; ADR/RID/IMDG/ICAO/IATA regulations.

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

SECTION 16 OTHER INFORMATION

Fifth Issue

Fourth Issue March 2015: Changed Composition

Third Issue March 2013: Changed to new format

Second Issue July 2011: Changed to Reach version 2 format

Full text of classification data in sections 2 and 3

Flam. Liq. 3; H226	Flammable liquid and vapour
Tox. Acute 4; H312	Harmful in contact with skin
Tox. Acute 4; H332	Harmful if inhaled
Skin Sens. 1B; H317	May cause an allergic skin reaction
Eye Irrit. 2; H319	Causes serious eye irritation
Skin Irrit. 2; H319	Causes skin irritation
Asp. Haz. 1; H304	May be fatal if swallowed and enters airways
Carcinogen 2; H351	Suspected of causing cancer
STOT SE 3; H336	May cause drowsiness or dizziness
STOT SE 3; H335	May cause respiratory irritation
STOT RE 2; H373	Causes damage to organs through prolonged or repeated exposure
Aquatic Chronic 2; H411	Toxic to aquatic life with long lasting effects