BLUERANGE®

SAFETY DATA SHEET

LITHIUM EP2 GREASE

Product Code: BREP2

SECTION 1 IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF COMPANY/UNDERTAKING

1.1	**Product Identifier** **Product Code**	LITHIUM EP2 GREASE BREP2/400 BREP2/12.5
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**	Lloyd & Jones Engineers Ltd Langton House 74B Regent Road, Bootle Merseyside, L20 1BL
1.4	**Emergency Telephone Number**	+44 (0)151 955 4700 (Monday – Friday 08.30 – 17.00 hrs GMT)
1.5	**Other Information**	Preparation Date: 21/10/2015

SECTION 2 HAZARD IDENTIFICATION

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

3.2 Mixtures

Hazardous Ingredients	CAS 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	<1.5

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

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Eyes Wash out eye with plenty of water. Obtain medical assistance if soreness or redness persists.

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.
6.3	**Methods and material for containment and cleaning up**	Absorb into dry earth or sand. Protect drains using drain covers. Dispose of as hazardous waste.
6.4	**Reference to other sections**	Personal protective equipment: See section 8

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)**	Intended for use as a high temperature lubricating grease.

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:		Libra EP 2
	Units	
Appearance		Brown smooth semi-fluid/stiff grease
Odour		Odourless
Odour Threshold		No data available
pH		Not applicable
Relative density	**kg/l**	0.89-0.93
Solubility - water		Insoluble
Melting Point	**°C**	>185
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	**mm²/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 Toxicty	No evidence of reproductive toxicity.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	No information available.
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.
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

Third Issue
Second Issue March 2015: Changed composition
First Issue November 2013: Changed to new format.

Full text of classification data in sections 2 and 3

Skin Irrit. 2: H315	Causes skin irritation
Eye Irrit. 2; H319	Causes serious eye irritation
Aquatic Chronic 2; H411	Toxic to aquatic life with long lasting effects