

Technical Data Sheet

LITHIUM GREASE

53-5849 PANAMIC LITHIUM GREASE

1. IDENTIFICATION

Order Code: 53-5489
Commercial Name: Lithium Grease EP No. 2
Other Names: High Load Lithium Grease
Intended Use: General lubricant with a high resistance to water

2. CHEMICAL COMPOSITION:

Name	EC-No.	CAS-No.	%-mass	Symbol(s)	R Phrases
Severely refined mineral oil with additives (IP346 DMSO extract < 3%) - -					
Lithium soaps of fatty acids - -					
Zinc naphthenate	234-409-2	12001-85-3	1 – 5	Xi	36/38,R52/53

No substances are present in concentrations regarded to present a hazard (Directive 1999/45/EC).

The Symbols and R-phrases in section 2 apply only to individual constituents. See section 16 for the text of these R-phrases.

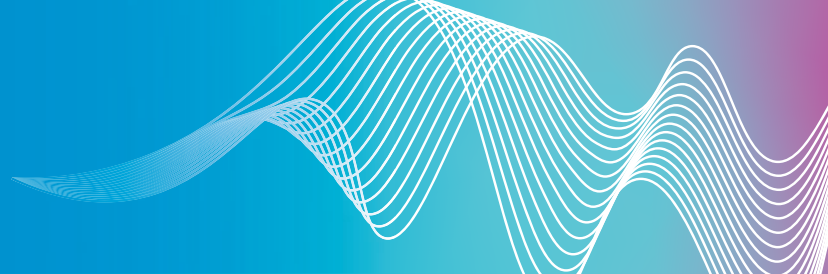
3. HAZARDS IDENTIFICATION:

Health: Unlikely to cause eye irritation.
Unlikely to cause immediate irritation but prolonged and repeated contact may be harmful to the skin. Not volatile. It is not likely to be an inhalation hazard at normal ambient temperatures.
If overheated, fumes and vapours are irritating to the breathing passages and lungs.
Ingestion is unlikely to cause adverse systemic health effects.

Environmental: Although no specific ecological hazards are expected and bioaccumulation is unlikely, spillage into the environment should always be avoided.

Physical / Chemical: Not applicable

Additional Information: Injection under the skin of oil or grease under very high pressure is a serious emergency which should immediately be referred to hospital. A copy of this data sheet should accompany the casualty to hospital for the information of the medical staff.



4. FIRST AID MEASURES:

Eyes:	Flush the eye with copious amounts of water. No emergency measures are necessary but if adverse eye effects follow, refer for medical attention.
Skin:	Wash the contaminated skin thoroughly with soap and water. No emergency measures are necessary but if adverse skin effects follow, refer for medical attention.
Inhalation:	Remove the affected person to fresh air. If recovery is not rapid, obtain medical attention.
Ingestion:	DO NOT INDUCE VOMITING. No emergency measures are needed but if adverse health effects follow, refer for medical attention.

5. FIRE PRECAUTIONS:

Extinguishing media:	Recommended: Dry chemical, foam, CO ₂ .
Not to be used:	Direct water jet. Use water ONLY to keep fire-exposed containers cool.
Specific exposure hazards:	Slight flammability hazard when exposed to heat or flame.
Special protective equipment for firefighters:	Use self-contained breathing equipment when fighting fire in confined spaces.

6. SPILLAGE:

Personal precautions:	Surfaces may become slippery after spillage.
Environmental precautions:	Water may be used to flush spills away from sources of ignition. Do not allow the product to enter public drainage system or open water courses.
Methods for cleaning up:	Absorb and scrape up.
Absorbent materials:	Sand or active clay.

7. HANDLING & STORAGE:

Handling:	Avoid prolonged or repeated skin contact. Use adequate ventilation.
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Storage:	Store in original steel or plastic containers
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8. PERSONAL PROTECTION:

Engineering measures:	No special measures needed.
Control parameters:	No internationally recognized exposure limit established. In all circumstances exposure should be kept as low as reasonably possible by good ventilation and safe working practices.
Respiratory protection:	Inhalation of the vapours, fumes or mists should be avoided by safe working practices and good ventilation.
Eye protection:	No special precautions are needed beyond clean working conditions and safe handling practices.
Hand/skin protection:	Prolonged and repeated skin contact should be avoided by the use of clean gloves and clean overalls. PVC or nitrile gloves may be suitable.

9. PHYSICAL & CHEMICAL PROPERTIES:

Physical state:	Grease
Colour:	Light brown
Appearance:	Smooth
Odour:	Mineral oil
pH:	Neutral
Boiling range, °C:	Initial boiling point (oil base) > 250
Melting Point, °C:	Not applicable
Flash Point, °C:	> 150 (ASTM D 92, COC)
Autoflammability/ ignition, °C:	Not known
Upper explosion limit:	Not known
Lower explosion limit:	Not known
Vapour pressure, 20 °C, kPa:	Negligible
Viscosity, kinematic, 40 °C, mm ² /s:	Not applicable
Relative density, 15 °C:	< 1.00
Water solubility:	Negligible
Partition coefficient, n-octanol/water:	Not known

10. STABILITY & REACTIVITY:

Conditions / materials to avoid:	Stable. May react with strong oxidizing agents.
Hazardous decomposition products:	Thermal decomposition or incomplete combustion may produce oxides of carbon and irritating fumes.

11. TOXICOLOGICAL INFORMATION: (SOLVENT ONLY)

Eyes:	Unlikely to cause eye irritation.
Skin:	Although incidental contact with the skin does not cause immediate irritation, prolonged and repeated contact may defat the skin and eventually cause dermatitis.
Inhalation:	Not volatile. It is not likely to be an inhalation hazard at normal ambient temperatures. If overheated, fumes and vapours are irritating to the breathing passages and lungs.
Ingestion:	Ingestion is unlikely to cause adverse systemic health effects.
Other:	The refined mineral base oils used in the formulation of this product are of a low order of toxicity in test animals. LD50 (rat) for base oils is above 5 g/kg .



12. ECOLOGICAL INFORMATION:

Mobility: Little mobility in soil. Some components may penetrate the soil causing ground water pollution. Will spread on the water surface.
A small portion may be dispersed in water.

Degradability: Not readily biodegradable.

Ecotoxicity/bioaccumulation: The base oil components are not expected to be dangerous to the aquatic environment.

13. SAFE DISPOSAL:

Transport to authorized waste location, or incinerate under controlled conditions (EU Directives 2000/76/EC and 1999/31/EC apply).

European Waste Catalogue Code 13 08 99:oil wastes not otherwise specified

14. TRANSPORT INFORMATION:

UN-no: Not classified

RID / ADR: Not classified

IMO: Not classified

IATA / ICAO: Not classified

15. REGULATORY INFORMATION:

EC Labelling / Classification:

Symbol(s): None

Contains:

R phrases: None

S phrases: None

Other regulations: Safety data sheet available for professional user on request.

16. OTHER INFORMATION:

Text of R-phrases indicated in section 2:

R 36/38: Irritating to eyes and skin.

R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.