



SAFETY DATA SHEET

LPS 1 Greaseless Lubricant Bulk Liquid

Revision 7

Revision Date 23/12/05

Supersedes: 25/10/05

Section 1 – Identity of the Substance/Preparation and Company/Undertaking

Product Name: LPS 1 GREASELESS LUBRICANT (BULK LIQUID)

Part Numbers: M01005, M01025, M01205

Product Use: A lubricant designed to penetrate rust and loosen seized bolts and other equipment damaged by corrosion.

Supplier: Geocel Limited, Western Wood Way, Langage Science Park, Plympton, Plymouth, PL7 5BG United Kingdom

TEL: +44 (0)1752 202060

FAX: +44 (0)1752 334384

In Case of Emergency: +001 703-527-3887

Manufacturer: LPS Laboratories, 4647 Hugh Howell Rd., Tucker, GA 30085 (U.S.A.)
<http://www.lpslabs.com>

Section 2 – Hazards Identification

Human and Environmental Hazards This preparation is considered hazardous according to European Union Directives 67/548/EEC and 1999/45/EC.

Harmful: may cause lung damage if swallowed. Inhalation of concentrated petroleum distillate mist or vapours can cause central nervous system (CNS) depression. This product may combust when subjected to high energy ignition sources.

Section 3 – Composition / Information on Ingredients

INGREDIENT NAME	EC No.	CASRN	Classification	Weight Percent
Distillates (Petroleum), Hydrotreated Light	265-149-8	64742-47-8	[Xn] R65	70-80%
Distillates (Petroleum), Hydrotreated Middle*	265-148-2	64742-46-7	[T] R45	20-30%

**This component has been tested by Supplier. According to Supplier, the component complies with the criteria of Note N in Annex I of 67/548/EEC, and is exempt from a classification of T; R45. (Contains less than 3% PNA per IP346) See "Section 11: Toxicological Information" for information regarding the classification of substances.*

Section 4 – First Aid Measures

Eyes: Liquid contact may cause irritation. Flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention if irritation persists.

Skin: Wash with soap and water. Get medical attention if irritation persists.

Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen and get medical attention. If not breathing, give artificial respiration and get medical attention.



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Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention immediately.

Section 5 – Fire Fighting Measures

Products of Combustion: carbon monoxide and carbon dioxide.

General Fire Hazards: While this material is not considered flammable, high heat will cause product to boil, evolving vapour that could cause explosive rupture of closed containers.

Firefighting media: SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray, fog or foam. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosions.

Sensitivity to Impact: None. **Sensitivity to Static Discharge:** None.

Protection Clothing (Fire): wear protective clothing and equipment suitable for the surrounding fire, including helmet, face mask, and self-contained breathing apparatus.

Section 6 – Accidental Release Measures

Precautions to protect environment: Do not allow entry into drains or watercourses. If this occurs inform the local authorities at once.

Spill Cleanup methods: Eliminate all sources of ignition and ventilate area. Use an absorbent material, eg sand, to mop up residues. See section 13 'Disposal Considerations'.

Section 7 – Handling and Storage

Storage Precautions: Keep in original container at ambient temperatures. . Keep container closed.

Section 8 – Exposure Controls / Personal Protection

Component	EC No.	UK LT EXP (8 hrs.)	UK ST EXP (15 min.)	Other
Distillates (Petroleum), Hydrotreated Light	265-149-8	Not Established	Not Established	100 ppm 525 mg/m ³ Supplier Recommendation
Distillates (Petroleum), Straight-Run Middle	265-148-2	5 mg/m ³ (Oil Mist)	10 mg/m ³ (Oil Mist)	5 mg/m ³ ACGIH-TLV 10 mg/m ³ ACGIH-STEL (Oil Mist)

Engineering measures Normal room ventilation is usually adequate. If necessary, use appropriate local exhaust ventilation to keep exposures below the regulated limits.

Personal protective equipment

Eye protection Safety glasses with side shields conforming to appropriate regulations. Eye wash fountain and emergency shower facilities are recommended.



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Hand protection	Use protective gloves conforming to appropriate regulations. Please observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves. Take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and the contact time.
Respiratory protection	Typical use of this product under normal conditions does not require the use of respiratory protection.
Hygiene measures	Do not soak clothing with this product and continue working without immediately changing clothes and washing skin. Do not reuse clothing until it has been laundered. An eyewash fountain should be available in the work area.
Environmental exposure controls	Soak up puddles of product with absorbent material and dispose of according to local regulations. Ventilate area to reduce worker exposure to vapours and prevent accumulation of explosive vapour concentrations.

Section 9 – Physical and Chemical Properties

Appearance:	Liquid.	Colour:	Pale amber.
Odour/Taste:	Characteristic.	Vapour Pressure:	< 7 Pascals @ 20 °C
Solubility Description:	Not soluble in water.	Evaporation Rate:	<0.1(BuAc=1)
Boiling Point (°C):	195 @ 101 kPa	Flash Point (°C):	70°C (minimum)
Specific Gravity (Water=1):	0.79-0.81 @ 20 °C	Flash Point Method:	Tag-Closed Cup.
Vapour Density (air=1):	>1	Auto Ignition Temperature (°C):	>228°C
V.O.C. Content:	0 g/L	Partition Coefficient (octanol/water):	<1
Flammable limits (estimated):	LOWER: 0.6% UPPER: 7%	Viscosity:	<3 mm ² /second @ 25°C
pH:	Not applicable		

Section 10 – Chemical Stability and Reactivity

Chemical Stability:	Product is stable under recommended storage conditions.
Conditions to Avoid:	Exposure to direct sunlight for extended periods. Temperatures in excess of 50°C.
Incompatibility:	Reactive or incompatible with oxidizing agents.
Hazardous Decomposition:	Combustion will generate smoke, possibly thick and choking, resulting in zero visibility and combustion products include carbon monoxide and carbon dioxide.
Hazardous Polymerization:	Will not occur.



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Section 11 – Toxicological Information

Acute and Chronic Toxicity

A: General Product Information

An acute toxicity study of this product has not been conducted. Information given in this section relates only to individual constituents contained in this preparation.

B: Component Analysis

Ingredients	EC No.	LC-50	LD-50
Distillates (Petroleum), Hydrotreated Light	265-149-8	>6.8 mg/L (Supplier Data)	>5 g/kg (Supplier Data)
Distillates (Petroleum), Straight-Run Middle	265-148-2	Not established	Not established

Note: Component 265-148-2 has been tested by Supplier. According to Supplier, the component complies with the criteria of Note N in Annex I of 67/548/EEC, and is exempt from a classification of T; R45. (Contains less than 3% PNA per IP346)"

Section 12 – Ecological Information

Mobility: Semi-volatile. Readily absorbed into soil. **Persistence and degradability:** Only slightly biodegradable.

Bioaccumulative potential: No bioaccumulation potential **Other adverse effects:** None known.

Component Information

Acute Aquatic Toxicity

Component	EC No.	Test	Species	Results
Distillates (Petroleum), Hydrotreated Light	265-149-8	48-hour EC ₅₀	Daphnia magna	Not established
		96-hour EC ₅₀	Microcystis pyrifera	Not established
Distillates (Petroleum), Straight-Run Middle	265-148-2	48-hour EC ₅₀	Daphnia magna	Not established
		96-hour EC ₅₀	Microcystis pyrifera	Not established

For the 265-149-8 component, no toxicity has been observed in water due to extremely low water solubility. If material is spilled on soil, some potential toxic effects could occur before biodegradation could remove material.

If spilled, the 265-148-2 constituent may kill grasses and small plants by interfering with transpiration. Spilled material may coat gill structures of fish resulting in suffocation if spilled in shallow, running water. This product may be toxic to amphibians by preventing dermal respiration. This product may also cause gastrointestinal distress to birds and mammals through ingestion. Biodegradation of this product is possible within 90 to 120 days in aerobic environments at temperatures above 21°C.

Section 13 – Disposal Considerations

Disposal: Waste must be disposed of in accordance with national and local environmental control regulations.

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information inaccurate, incomplete, or otherwise inappropriate.

Section 14 – Transportation Information

This product is not classified for the purposes of transportation.



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Section 15 – Regulatory Information

Warning Symbol(s): Xn

Risk Phrases: R-65 Harmful: may cause lung damage if swallowed.

Safety Phrases: S-2 Keep out of the reach of children.
S-23 Do not breathe vapour.
S-24 Avoid contact with the skin.
S-62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 16 – Other Information

User Notes: The purpose of the above information is to describe this product only in terms of Health and Safety requirements. The information given therefore, should not be construed as guaranteeing specific properties or specification. Customers should satisfy themselves as to the suitability and completeness of this information for their own particular use, bearing in mind any other Health and Safety legislation or regulations. The information and recommendations in this publication are to the best of our knowledge reliable. However, nothing herein is construed as a warranty or representation. Statements concerning the use of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is to be assumed.

Information Sources: ESIS: European Chemical Substances Information
HSE EH40 Occupation Exposure Limits. Suppliers Safety Data Sheets.

Full R-Phrases R 65 Harmful: may cause lung damage if swallowed.
R 45 May cause cancer.