



# SAFETY DATA SHEET

## LPS F-104° (Aerosol Spray Can)

Revision Date: 24 November 2010

Supersedes: 3 November 2010

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

**Product Name:** LPS F-104° (Aerosol Spray Can)

**Part Numbers:** M04920/M49400

**Product Use:** A solvent degreasing agent for removing grease, oil and other residues from metal and other hard surfaces.

**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 30084 (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. This product will combust when subjected to ignition sources. Do not spray on a naked flame or any incandescent material.

Extremely Flammable. Irritating to skin. May cause sensitization by skin contact. Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

Remark: The classification for aspiration hazards (R65), does not apply for products placed on the market in aerosol containers. (EU-Directive 67/548 Annex VI 9.4). Inhalation of concentrated petroleum distillate mist or vapours can cause central nervous system (CNS) depression.

### Section 3 – Composition / Information on Ingredients

INGREDIENT NAME	EC No.	CASRN	Classification	Weight Percent
Light Mineral Spirits /Stoddard Solvent	232-489-3	8052-41-3	Note P	
or	or	or	or	
Solvent Naphtha (petroleum), medium aliphatic	265-191-7	64742-88-7	R10;EU-Directive 67/548, Annex VI 9.4	70 - 80%
2-methoxy-1-methylethyl acetate	203-65-6	108-65-6	R10	5 – 10%
d-Limonene	227-813-5	5989-27-5	R10; [Xi] R38, R43; [N] R50/53	1 - 5%
Carbon Dioxide	204-696-9	124-38-9	Not Classified	1 - 5%

*Note P: This component has been tested by Supplier. According to Supplier, the component complies with the criteria of Note P in Annex I of 67/548/EEC, and is exempt from a classification of T; R45. (Contains less than 0.1% benzene) See "Section 11: Toxicological Information" for information regarding the classification of substances. The classification for aspiration hazards (R65), does not apply for products placed on the market in aerosol containers. (EU-Directive 67/548 Annex VI 9.4)*



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### Section 4 – First Aid Measures

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- 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:** Remove contaminated shoes and clothing. Clean affected area thoroughly with mild soap and water. Do not use ointments. Seek 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.
- 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.

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### Section 5 – Fire Fighting Measures

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**Products of Combustion:** Carbon monoxide and carbon dioxide.

**General Fire Hazards:** High heat will cause product to boil, evolving vapour that could cause explosive rupture of closed containers. Aerosols may explode upon heating, spread fire, and overcome sprinkler systems.

**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:** Yes.

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

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### Section 6 – Accidental Release Measures

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

**Spill Cleanup methods:** This product is a hermetically sealed pressurized aerosol unit and accidental spillage is unlikely. If can is ruptured, allow contents to discharge in situ, whilst removing all ignition sources from the area and ensuring maximum ventilation. Use an absorbent material, e.g. sand, to mop up residues. See section 13 'Disposal Considerations'.

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### Section 7 – Handling and Storage

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**Usage Precautions:** Do not spray on a naked flame or any incandescent material.

**Storage Precautions:** Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. It is recommended that aerosols are stored in their own location away from bulk flammable liquids and packaging materials. Store in a cool, dry place away from heat and ignition sources.



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### Section 8 – Exposure Controls / Personal Protection

Component	EC No.	UK LT EXP (8 hrs.)	UK ST EXP (15 min.)	Other
Light Mineral Spirits /Stoddard Solvent or Solvent Naphtha (petroleum), medium aliphatic	232-489-3 or 265-191-7	Not Established	Not Established	100 ppm OSHA TWA-PEL
2-methoxy-1-methylethyl acetate	203-65-6	50 ppm	100 ppm	Not Established
d-Limonene	227-813-5	Not Established	Not Established	OEL-FINLAND: TWA 25 ppm (140 mg/m <sup>3</sup> ), STEL 50 ppm (280 mg/m <sup>3</sup> )  OEL-GERMANY: MAK 110 mg/m <sup>3</sup> (20 mL/m <sup>3</sup> ) (skin, sen),  OEL-SWITZERLAND: MAK-W 20 ppm (110 mg/m <sup>3</sup> ),KZG-W 40 ppm (220 mg/m <sup>3</sup> )
Carbon Dioxide	204-696-9	5000 ppm	15000 ppm	5000 ppm ACGIH-TLV 30000 ACGIH-STEL

#### 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.

##### 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. If extended spraying of product will be made under poor ventilation, use appropriate organic vapour filtering respirators

##### 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.



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### Section 9 – Physical and Chemical Properties

<b>Appearance:</b>	Liquid	<b>Colour:</b>	Colorless/Water-white
<b>Odour:</b>	Orange	<b>Evaporation Rate:</b>	0.15 (BuAc=1)
<b>Solubility Description:</b>	Slight solubility in water	<b>Flash Point:</b>	40°C (104°F) dispensed liquid
<b>Boiling Point:</b>	~157°C (315 °F) @ 101 kPa	<b>Flash Point Method:</b>	Tag-Closed Cup
<b>Specific Gravity (H<sub>2</sub>O=1):</b>	0.77 – 0.79 @ 20 °C	<b>Decomposition Temperature:</b>	Not Established
<b>Vapour Density (air = 1):</b>	4.8-5.3	<b>Auto ignition temperature:</b>	>228°C(442°F)
<b>Vapour Pressure:</b>	~0.3 kPa @ 20°C dispensed liquid	<b>Flammable limits (estimated):</b>	LOWER: 0.7% UPPER: 6%
<b>Melting Point:</b>	Not Established	<b>Partition Coefficient (octanol/water):</b>	<1
<b>pH:</b>	Not Applicable	<b>Odour Threshold:</b>	Not Established
<b>Heat of combustion:</b>	> 30 kJ/g	<b>Viscosity:</b>	< 3 cSt @ 25°C
<b>Volatiles:</b>	100%		

### 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.

### 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
Light Mineral Spirits /Stoddard Solvent or Solvent Naphtha (petroleum), medium aliphatic	232-489-3 or 265-191-7	>5500 mg/m <sup>3</sup> /rat/4H*	>5000 mg/kg/oral/rat* >3000 mg/kg/dermal/rat*
2-methoxy-1-methylethyl acetate	203-65-6	Not Established	8532 mg/kg/oral/rat
d-Limonene	227-813-5	Not Established	4400 mg/kg/oral/rat >5000 mg/kg/dermal/rabbit
Carbon Dioxide	204-696-9	470000 ppm/30M	Not Established

\* Supplier Data



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### Section 12 – Ecological Information

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

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

#### Component Information

##### Acute Aquatic Toxicity

Effect on Organisms	Ingredients	EC No.	Test	Species	Results
Acute Toxicity on Fishes	d-Limonene	227-813-5	4-day LC50	Oncorhynchus mykiss	35000 µg/L
	d-Limonene	227-813-5	96hr EC50	Pimephales promelas	1490000 µg/L
Acute Toxicity on Daphnia	No Data Available				
Bacterial inhibition					
Growth inhibition of algae					
Bioaccumulation in fish					

### 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.



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### Section 14 – Transportation Information

Road/Rail - ADR/RID	UN No.:	1950	ADR Class:	2
	Packing Group:	NA	Classification Code:	5F
	Name and description:	Aerosols, Flammable	Hazard ID No.:	NA
	Labeling:	2.1	Technical Name:	NA
IMDG-IMO	UN No.:	1950	Class:	2
	Shipping Name:	Aerosols	Subsidiary Risk:	2.1
	Labeling:	NA	Packing Group:	NA
	Packing Instructions:	P003, LP02	EMS:	F-D, S-U
	Marine pollutant:	No	Technical Name:	NA
IATA - ICAO:	UN No.:	1950	Class:	2.1
	Shipping Name:	Aerosols, Flammable	Subclass:	NA
	Packing Instructions:	203, Y203 (Ltd. Qty)	Packing Group:	NA
	Labeling:	Flammable Gas	Technical Name:	NA

### Section 15 – Regulatory Information

Warning Symbol(s):



Risk Phrases:

R-12 Extremely Flammable  
R-38 Irritating to skin.  
R-43 May cause sensitization by skin contact.  
R-50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

*Remark: The classification for aspiration hazards (R65), does not apply for products placed on the market in aerosol containers. (EU-Directive 67/548 Annex VI 9.4)*

Safety Phrases:

S-2 Keep out of the reach of children.  
S-16 Keep away from sources of ignition – no smoking.  
S-23 Do not breathe vapour / spray.  
S-24 Avoid contact with skin.  
S-37 Wear suitable gloves.  
S-60 This material and its container must be disposed of as hazardous waste.  
S-61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Precautionary Phrases:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.



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### Section 16 – Other Information

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<b>User Notes:</b>	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.
<b>Information Sources:</b>	ESIS: European Chemical Substances Information HSE EH40 Occupation Exposure Limits. Suppliers Safety Data Sheets.
<b>Full R-Phrases</b>	R 10 Flammable. R 12 Extremely Flammable R-38 Irritating to skin. R-43 May cause sensitization by skin contact. R-50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.