



# SAFETY DATA SHEET

## LPS ZeroTri Degreaser

### Aerosol Spray Can

Revision 7

Revision Date 29/5/07

Supersedes: 23/12/05

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

**Product Name:** LPS ZEROTRI DEGREASER (AEROSOL SPRAY CAN)

**Part Numbers:** M35400

**Product Use:** A spray degreaser designed to quickly remove heavy grease and other residues from metal parts.

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

Highly flammable. Irritating to eyes and skin. Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

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
n-heptane	205-563-8	142-82-5	[F] R11; [Xi] R38; [N] R50/53; [Xn] R65; R67	25 - 35 %
Acetone	200-662-2	67-64-1	[F] R11; [Xi] R36, R66, R67	25 – 35 %
Methylcyclohexane	203-624-3	108-87-2	[F] R11; [Xi] R38, R67; [N] R51/53	20 - 30%
Pentyl acetate	211-047-3	628-63-7	R10 - R66	2 – 6 %
Carbon Dioxide	204-696-9	124-38-9	NC	2 - 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:** 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.
- 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:** Highly 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:** See sections 6,7,8 and 15.

**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 pressurised 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, eg 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:** Pressurised 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
n-heptane	205-563-8	400 ppm	500 ppm	400 ppm ACGIH-TLV 500 ppm ACGIH-STEL
Acetone	200-662-2	750 ppm	1500 ppm	500 ppm ACGIH-TLV 750 ppm ACGIH-STEL
Methylcyclohexane	203-624-3	400 ppm	500 ppm	Not established
pentyl acetate	211-047-3	50 ppm	100 ppm	Not established
Carbon Dioxide	204-696-9	5000 ppm	15000 ppm	5000 ppm ACGIH-TLV 30000 ppm 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

Normally no hand protection is required; however, if product will be sprayed for an extended period, "overspray" onto skin may occur. If so, 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 vapor 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 (from a crushed or ruptured aerosol) 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>Color:</b>	Colorless / water-white
<b>Odour/Taste:</b>	Ether-like/fruity.	<b>Vapour Pressure:</b>	47 kPa @ 38 °C
<b>Solubility Description:</b>	35% by weight.	<b>Evaporation Rate:</b>	<1(Ethyl Ether =1)
<b>Boiling Point (°C):</b>	60.5 @ 101 kPa	<b>Flash Point (°C):</b>	<-17°C
<b>Specific Gravity (Water=1):</b>	0.74-0.76 @ 20°C	<b>Flash Point Method:</b>	Tag-Closed Cup.
<b>Vapour Density (air=1):</b>	~3.0	<b>Auto Ignition Temperature (°C):</b>	306°C
<b>V.O.C. Content:</b>	750 g/L	<b>Partition Coefficient (octanol/water):</b>	>1
<b>Viscosity:</b>	<3 mm <sup>2</sup> /sec. @ 25°C	<b>pH:</b>	Not applicable

#### Section 10 – Chemical Stability and Reactivity

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

#### Section 11 – Toxicological Information

##### 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.	CASRN	LC-50	LD-50
n-heptane	205-563-8	142-82-5	103 gm/m <sup>3</sup> /4hr. rat	222 mg/kg mouse
Acetone	200-662-2	67-64-1	50100 mg/m <sup>3</sup> /8hr. rat	5500 mg/kg rat
Methylcyclohexane	203-624-3	108-87-2	36900 mg/m <sup>3</sup> /2hr. mouse	>3200 mg/kg rat
Pentyl acetate	211-047-3	628-63-7	>3000 ppm/6hr. rat	>1600 mg/kg rat
Carbon dioxide	204-696-9	124-38-9	Not determined	Not determined



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#### Section 12 – Ecological Information

<b>Mobility:</b>	Volatile. May partially absorb into soil.	<b>Persistence and degradability:</b>	Only slightly biodegradable.
<b>Bioaccumulative potential:</b>	No bioaccumulation potential	<b>Other adverse effects:</b>	None known.

#### Component Information

Acute Aquatic Toxicity

Component	EC No.	Test	Species	Results
n-heptane	205-563-8	24-96 hour EC <sub>50</sub>	Daphnia magna	4924 mg/L
Acetone	200-662-2	48-hour EC <sub>50</sub>	Daphnia magna	12700 mg/L
Methylcyclohexane	203-624-3	48-hour EC <sub>50</sub>	Daphnia magna	15 mmol/m <sup>3</sup>
Pentyl acetate	211-047-3	48-hour EC <sub>50</sub>	Daphnia magna	Not Determined
Carbon dioxide	204-696-9	Not Applicable		

#### 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

Road/Rail - ADR/RID :	UN no:	1950	ADR Class:	2
	Classification code:	5F	Shipping name:	AEROSOLS, flammable
	Labelling:	2.2	Packing Group:	NA
IMDG-IMO	UN no:	1950	Class:	2
	Shipping Name:	AEROSOLS	Packing Group:	NA
	EmS:	F-D, S-U	Packing Instructions:	P003
IATA-ICAO:	UN no:	1950	Class:	2.1
	Proper Shipping Name:	Aerosols, flammable	Labeling:	Flammable Gas



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### Section 15 – Regulatory Information

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**Warning Symbol(s): F, Xi, N**

**Risk Phrases:**

R-11	Highly Flammable
R-36/38	Irritating to eyes and skin.
R-50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R-66	Repeated exposure may cause skin dryness or cracking.
R-67	Vapours may cause drowsiness and dizziness.

**Safety Phrases:**

S-2	Keep out of the reach of children.
S-9	Keep container in a well ventilated place.
S-16	Keep away from sources of ignition – No Smoking
S-23	Do not breathe spray.
S-25	Avoid contact with eyes.
S-33	Take precautionary measures against static discharges.
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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**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-11	Highly Flammable
R-36/38	Irritating to eyes and skin.
R-50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R-65	Harmful: may cause lung damage if swallowed.
R-66	Repeated exposure may cause skin dryness or cracking.
R-67	Vapours may cause drowsiness and dizziness.