



# MATERIAL SAFETY DATA SHEET

## A-151 Solvent/Degreaser

Revision: 3/30/2010

Supersedes: 7/25/2008

### Section 1 • Product and Company Identification

**Product Name:** A-151 Solvent/Degreaser

**Part Number:** 04320,04328,04305,04355, C04320,C04328,C04305,C04355

**Chemical Name:** Petroleum Hydrocarbons

**Product Use:** A spray degreaser designed for removing heavy residues from metal and other hard surfaces where reduced flammability, toxicity and environmental impact are concerns.

**Manufacturer Information:** LPS Laboratories, 4647 Hugh Howell Rd., Tucker, GA, USA 30084

**TEL:** 1 770-243-8800

**Emergency Telephone Number:** 1-800-424-9300 Chemtrec;  
Outside U.S.: (703) 527-3887

**FAX:** 1 770-243-8899

**Website:** <http://www.lpslabs.com>

**RECEIVED**

By Licence Administrator at 1:15 pm, Jun 15, 2011

#### PLAIN LANGUAGE HAZARD SUMMARY

Material Safety Data Sheets can be confusing. Federal and State laws require us to include a great deal of technical information that probably will not help the non-professional. LPS includes this "PLAIN LANGUAGE HAZARD SUMMARY" to address the questions and concerns of the average worker. If you have additional health, safety or product questions, do not hesitate to call us at 800/241-8334.

##### Worker Toxicity

A-151 Solvent/Degreaser is an industrial chemical. It is a high strength cleaning solvent designed to remove oils, resins, grease and grime. It contains petroleum distillates and special "coating solvents" that can be irritating to skin. Avoid extended exposure to unprotected skin. If the product soaks clothing (and even shoes), remove the affected clothing and launder it before wearing it again. **THROW AWAY SOAKED SHOES!** Do not get the solvent in your eyes (it stings), or breath the vapor (especially if working on hot surfaces or with heated tanks). Vapors from heated A-151 Solvent/Degreaser can make you dizzy and even sick. For more exposure and first aid information, refer to MSDS Sections 2, 3, 8 and 11.

##### Flammability

A-151 Solvent/Degreaser is combustible having a flash point above 170°F and an auto ignition temperature over 375° F. Under normal use conditions flammability is not a concern, but do not apply the product onto red-hot metal surfaces or near sparks.

##### Disposal

If you spill A-151 Solvent/Degreaser, notify the proper environmental or safety department at your company right away. If A-151 Solvent/Degreaser becomes contaminated with another substance and is rendered unusable for cleaning, the resulting mixture will fall under at least one hazardous classification. See section 13 for more details.

##### Notice to LPS customers

Due to phase-out of the Exxate® line of alkyl acetate solvents by Exxon/Mobil, we reformulated our product in 2004, LPS A-151 Degreaser effective August 18, 2004 (date stamp "4231"). The new formulation was evaluated by an independent aerospace materials testing facility and continues to conform to the Douglas CSD#1 and Boeing D6-17487P specifications. In addition, LPS A-151 Degreaser is now "V.O.C. compliant" for all cleaning and degreasing applications throughout the United States. This document is the Safety Data Sheet for the current formulation. If there is a need for a safety data sheet for the formulation dated before August 18, 2004 (date stamp "4231"), please contact us.



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## Section 2 • Hazards Identification

*This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).*

*This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.*

### Emergency Overview

**Aerosol: DANGER:** Flammable Aerosol. Aerosol contents under pressure. Harmful or Fatal if Swallowed.

**Bulk: DANGER:** Combustible. Harmful or Fatal if Swallowed.

**Primary route(s) of entry:** Skin and Eye contact. Inhalation.

### Potential Acute Health Effects:

**Eyes:** Irritating to eyes

**Skin:** Repeated exposure may cause skin dryness or cracking.

**Inhalation:** High vapor concentrations may cause headaches, stupor, irritation of throat and eyes, and kidney effects. Aspiration into lungs may cause pneumonia or death.

**Ingestion:** If swallowed, call a physician immediately. ONLY induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

### Potential Chronic Health Effects:

**Carcinogenic Effects:** NTP: No OSHA: No ACGIH: No

**Mutagenic Effects:** None

**Teratogenic Effects:** None

**Target Organs:** None

**Medical conditions aggravated by exposure:** None known at this time.

### Signs and Symptoms:

Stinging in eyes. Repeated or prolonged skin contact can cause redness, irritation, and scaling of the skin (dermatitis). Breathing of high vapor concentrations may cause headaches, stupor, irritation of throat and eyes, and kidney effects.

## Section 3 • Composition /Information on Ingredients

Component	CASRN	Weight Percent
Aliphatic Hydrocarbon	64742-47-8	60 – 70%
Dipropylene glycol methyl ether acetate	88917-22-0	10 – 20%
Dipropylene glycol monobutyl ether	29911-28-2	10 – 20%
Carbon Dioxide (aerosol only)	124-38-9	1 - 5 %



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### Section 4 • First Aid Measures

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- Eyes:** Check for and remove contact lenses. If irritation or redness develops, flush eyes with cool, clean, low pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. Do not use eye ointment. Seek medical attention immediately.
- 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:** Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, seek medical attention immediately.
- 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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**Flash point:** TCC CLOSED CUP: 70°C (158°F) minimum bulk liquid

**Flammable limits:** LOWER: 0.6% UPPER: 20.4% **Auto ignition Temperature:** ≥ 194°C (381°F)

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

**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, auto ignition or explosions.

**Sensitivity to Impact:** None.

**Sensitivity to Static Discharge:** None

**Protection Clothing (Fire):** Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles.

**Special Remarks on Explosion Hazards:** Intense heat created by fire will cause aerosols to burst.

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### Section 6 • Accidental Release Measures

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- |                               |   |   |
|-------------------------------|---|---|
| <b>Containment Procedures</b> | <b>Small Spill and Leak:</b>  | Eliminate all ignition sources. Absorb with an inert material and dispose of properly.  |
|                               | <b>Large Spill and Leak:</b>  | Ventilate area by opening windows and doors. Eliminate all ignition sources. Block the path of any flowing material using soil, gravel, or other readily available material. Absorb with dry earth, sand or other non-combustible material and dispose of properly. |
| <b>Clean-Up Procedures</b>    | Recover free product and place in suitable container for disposal.                                    |   |
| <b>Evacuation Procedures</b>  | Ventilate area of leak or spill. Keep unnecessary and unprotected people away.                        |   |
| <b>Special Procedures</b>     | Remove all sources of ignition. Ventilate area. Wear appropriate protective equipment during cleanup. |   |



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### Section 7 • Handling and Storage

**Handling:** DO NOT spray into or around ignition sources. After handling, always wash hands thoroughly with soap and water. Use only with adequate ventilation. Avoid breathing vapors or spray mists. Avoid contact with eyes, skin, and clothing.

**Storage:** Keep container in a cool, well-ventilated area. Avoid all sources of ignition (spark or flame). Store below 120°F.

**Precautions to be taken in handling and storage:** Store all materials in dry, well-ventilated area. Avoid breathing vapors. Ground and bond containers before transferring materials.

### Section 8 • Exposure Controls / Personal Protection

#### Exposure Guidelines:

Component	CASRN	OSHA TWA-PEL	OSHA STEL	ACGIH TLV	ACGIH STEL	OTHER LIMITS
Aliphatic Hydrocarbon	64742-47-8	500 ppm	Not Established	100 ppm	Not Established	100 ppm*
Dipropylene glycol methyl ether acetate	88917-22-0	100 ppm	Not Established	Not Established	Not Established	Not Established
Dipropylene glycol monobutyl ether	29911-28-2	Not Established	Not Established	Not Established	Not Established	10mg/m <sup>3</sup> aerosol*
Carbon Dioxide	124-38-9	5000 ppm	Not Established	5000 pm	30000 ppm	5000 CANADA TWA

\*Note: Exposure guidelines provided by supplier.

**Engineering measures** Provide general and/or local exhaust ventilation to keep exposures below the exposure guidelines listed above.

#### 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 chemical resistant gloves (i.e., nitrile, neoprene, buna) conforming to appropriate regulations. Please observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves.

**Respiratory protection** Typical use of this product under normal conditions does not require the use of respiratory protection. If airborne concentrations are above the applicable exposure limits (listed above), use NIOSH approved respiratory protection (i.e., organic vapor cartridge).

**General Hygiene Considerations** Wash thoroughly after handling. Have eye-wash facilities immediately available.



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### Section 9 • Physical and Chemical Properties

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<b>Appearance:</b>	Liquid.	<b>Color:</b>	Clear, water-white
<b>Odor/Taste:</b>	Characteristic.	<b>Vapor Pressure:</b>	< 0.1 mmHg @ 20 °C
<b>Solubility Description:</b>	Not soluble in water.	<b>Evaporation Rate:</b>	<0.1(BuAc=1)
<b>Boiling Point:</b>	195 °C(383°F)	<b>Flash Point:</b>	70°C (158°F)minimum
<b>Specific Gravity (Water=1):</b>	0.84-0.86 @ 20 °C	<b>Flash Point Method:</b>	Tag-Closed Cup.
<b>Vapor Density (air=1):</b>	6.1	<b>Auto Ignition Temperature (°C):</b>	>194°C
<b>VOC Content:</b>	0 g/L per CARB / OTC definitions	<b>Partition Coefficient (octanol/water):</b>	>1
	850 g/L per EPA method 24 SCAQMD Rule 102	<b>Viscosity:</b>	<3 mm <sup>2</sup> /second @ 25°C
<b>Flammable limits (estimated):</b>	LOWER: 0.6% UPPER: 20.4%	<b>Odor threshold:</b>	Not Determined

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### Section 10 • Stability and Reactivity

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<b>Chemical Stability:</b>	Product is stable under recommended storage conditions.
<b>Conditions to Avoid:</b>	Keep away from heat and ignition sources.
<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.



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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	CASRN	LC-50	LD-50	Carcinogenicity (IARC,NTP,OSHA)	Neurotoxicity	Reproductive Toxicity
Aliphatic Hydrocarbon	64742-47-8	>6.8 mg/L (Supplier Data)	>5 g/kg (Supplier Data)	Not listed.	No Data Available	No Data Available
Dipropylene glycol methyl ether acetate	88917-22-0	Not Established	>5 g/kg	Not listed.	No Data Available	No Data Available
Dipropylene glycol monobutyl ether	29911-28-2	>2.04 mg/L /4 hrs./rat	>3 g/kg	Not listed.	No Data Available	No Data Available
Carbon Dioxide	124-38-9	Not Established	Not Established	Not listed.	No Data Available	No Data Available

### 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.

#### Ecotoxicity:

Effect on Organisms	Component	CASRN	Test	Species	Results
Acute Toxicity on Fishes	Aliphatic Hydrocarbon	64742-47-8	LC <sub>50</sub>	Oncorhynchus mykiss	3200 ug/L
Acute Toxicity on Daphnia					No Data Available
Bacterial inhibition					
Growth inhibition of algae					
Bioaccumulation in fish					



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### Section 13 • Disposal Considerations

**Waste Status:** T  
**Aerosol product:** If depressurized and emptied to less than 2.5 cm of fluid contents are classified as non-hazardous waste under 40 CFR 261.7 (U.S.). If disposed of in its received form, this item carries waste code D003. (U.S.)  
**Bulk product:** If discarded in its purchased form, this product is not a RCRA hazardous waste. Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, and mixtures may change the classification.

**Disposal:** Waste must be disposed of in accordance with federal, state, provincial, 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. Furthermore, state and local waste disposal requirements may be more restrictive than federal laws and regulations.

### Section 14 • Transport Information

#### Aerosol

<b>D.O.T. Ground</b>	Shipping Name:	Consumer Commodity	UN Number:	NA
	Hazard Class:	ORM-D	Technical Name:	NA
	Subclass:	NA	Hazard Label:	ORM-D
<b>Road/Rail - ADR/RID:</b>	UN no:	1950	ADR Class:	2
	Classification code:	5F	Shipping name:	AEROSOLS, flammable
	Labeling:	2.1	Packing Group:	NA
<b>IMDG-IMO</b>	UN no:	1950	Class:	2
	Shipping Name:	AEROSOLS	Packing Group:	NA
	EmS:	F-D, S-U	Packing Instructions:	P003
<b>IATA-ICAO:</b>	UN no:	1950	Class:	2.1
	Proper Shipping Name:	Aerosols, flammable	Labeling:	Flammable Gas
	Packing Group:	NA	Technical Name:	NA

The non-aerosol versions of this product are not regulated under any mode of transportation.



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## Section 15 – Regulatory Information

### U.S. Federal Regulations

**RCRA Hazardous Waste No.:** D003 (Aerosol only)

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):** This product contains no Reportable Quantity (RQ) Substances.

**Toxic Substances Control Act (TSCA):**

All components of this product are TSCA inventory listed and/or are exempt.

**Superfund Amendments and Reauthorization Act (SARA) Title III**

**SARA Section 311/312 (40 CFR 370) Hazard Categories:**

Sudden Release of Pressure (aerosols only), Fire Hazard, Immediate (Acute) Health Hazard

**This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):** None

**Section 112 Hazardous Air Pollutants (HAPs):** None

### State Regulations

**California:** This product does not contain chemical(s) known to the State of California to cause cancer, birth defects or reproductive harm.

**New Jersey Right to Know:**

**Aerosol:** Aliphatic Hydrocarbon 64742-47-8 • Dipropylene glycol methyl ether acetate 88917-22-0 • Dipropylene glycol mono butyl ether 29911-28-2 • Carbon Dioxide 124-38-9

**Bulk:** Aliphatic Hydrocarbon 64742-47-8 • Dipropylene glycol methyl ether acetate 88917-22-0 • Dipropylene glycol mono butyl ether 29911-28-2

### International Regulations

**Canadian Environmental Protection Act:** All of the components of this product are included on the Canadian Domestic Substances list (DSL).

**Canadian Workplace Hazardous Materials Information System WHMIS:**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**WHMIS Classification:**

**Aerosol: Class A, Class B5, Class D2B**



**Bulk: Class B3, Class D2B**





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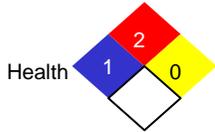
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### Other Regulations

Montreal Protocol listed ingredients: None.  
 Stockholm Convention listed ingredients: None.  
 Rotterdam Convention listed ingredients: None.  
 RoHS Compliant: Yes.

### Section 16 • Other Information

MSDS#14320 Responsible Name: Clea George Regulatory Affairs Coordinator	HMIS 1996	HMIS III	<b>NFPA</b> Flammability  Health      Reactivity
	<b>Health:</b> 1	<b>Health:</b> [1]	
	<b>Flammability:</b> 2	<b>Flammability:</b> 3	
	<b>Reactivity:</b> 0	<b>Physical Hazard aerosol:</b> 2 <b>bulk:</b> 0	

### Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.