

# SAFETY DATA SHEET

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1. Identification		
Product identifier	LPS® 3 (Aerosol)	
Other means of identification		
Part Number	00316	
Recommended use	A specialized soft-film spray coating design and other metals.	ed to prevent rust and corrosion on steel, aluminum
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier Manufacturer	/Distributor information	
Manufacturer Company name Address Country	LPS Laboratories, a division of Illinois Tool 4647 Hugh Howell Rd. Tucker, GA 30084 (U.S.A.)	Works, Inc.
In Case of Emergency	Tel: +1 770-243-8800 1-800-424-9300 (inside U.S.) +001 703-527-3887 (outside U.S.)	
Website E-mail	www.lpslabs.com sds@lpslabs.com	
2. Hazard(s) identification		
Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Compressed gas
Health hazards	Acute toxicity, oral	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Specific target organ toxicity, repeated exposure (inhalation)	Category 1 (Central Nervous System)
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		

Signal word Danger Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Harmful if Hazard statement swallowed. Causes skin irritation. Causes serious eye irritation. Causes damage to organs through prolonged or repeated exposure. **Precautionary statement** Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves. Wear eye/face protection. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If in eyes: Rinse Response cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Specific treatment (see this label). If skin irritation occurs: Get medical advice/attention. Get medical advice/attention if you feel unwell. Storage Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.

Not applicable.

### 3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Light Mineral Spirits		64742-88-7	40 - 50
1-butoxy-2-propanol		5131-66-8	1 - 10
Acetone		67-64-1	1 - 10
Distillates Petroleum Hydrotreated Heavy		64742-54-7	1 - 10
Distillates Petroleum, Hydrotreated Light		64742-47-8	1 - 10
Carbon Dioxide		124-38-9	1 - 5

#### 4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Defatting of the skin. Rash. Symptoms of overexposure can include shortness of breath, drowsiness, headaches, confusion, decreased coordination, visual disturbances and vomiting, and are reversible if exposure is stopped.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.
General information	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Powder. Alcohol resistant foam. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Water runoff can cause environmental damage.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Extremely flammable aerosol.

#### 6. Accidental release measures

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Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. The product is immiscible with water and will spread on the water surface. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Collect spillage. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Avoid breathing gas. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.
Conditions for safe storage,	Level 3 Aerosol.
including any incompatibilities	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition.

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Acetone (CAS 67-64-1)	PEL	2400 mg/m3	
		1000 ppm	
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
,		5000 ppm	
US. ACGIH Threshold Limit Value	S		
Components	Туре	Value	
Acetone (CAS 67-64-1)	STEL	750 ppm	
	TWA	500 ppm	
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm	
,	TWA	5000 ppm	
US. NIOSH: Pocket Guide to Cher	nical Hazards		
Components	Туре	Value	
Acetone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	

Biological limit values ACGIH Biological Expos	ure Indices			
Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*
* - For sampling details, pl	ease see the source	document.		
Appropriate engineering controls	should be mate or other engine	hed to conditions. If an ering controls to maint	plicable, use pro ain airborne leve	hour) should be used. Ventilation rates ocess enclosures, local exhaust ventilation, ils below recommended exposure limits. If irborne levels to an acceptable level.
Individual protection measur	es, such as person	al protective equipme	ent	
Eye/face protection	Wear safety gla	asses with side shields	(or goggles). Ey	e wash fountain is recommended.
Skin protection				
Hand protection	Chemical resist	ant gloves are recomm	nended.	
Other	Avoid contact w	vith clothing. Wear suit	able protective c	lothing. Chemical resistant gloves.
Respiratory protection	air-supplied res	pirator if there is any p	otential for an ur	required. Use a positive-pressure ncontrolled release, exposure levels are not respirators may not provide adequate
Thermal hazards	Not applicable.			
General hygiene considerations	as washing afte		I and before eati	ve good personal hygiene measures, such ng, drinking, and/or smoking. Routinely /e contaminants.

## 9. Physical and chemical properties

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Appearance	Cloudy. Liquid.
Physical state	Gas.
Form	Aerosol.
Color	Brown.
Odor	Mild. Cherry.
Odor threshold	Not available.
рН	Not applicable
Melting point/freezing point	Not available.
Initial boiling point and boiling range	320 - 392 °F (160 - 200 °C)
Flash point	73.4 °F (23.0 °C) Tag Closed Cup dispensed liquid
Evaporation rate	0.2 (BuAc = 1)
Flammability (solid, gas)	Flammable gas.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	0.6 %
Flammability limit - upper (%)	6 %
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	2.6 mm Hg @ 20ºC
Vapor density	4.8 (air = 1)
Relative density	Not available.
Solubility(ies)	
Solubility (water)	insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	446 °F (230 °C)
Decomposition temperature	Not available.

Viscosity	200 - 800 cP
Other information	
Density	6.82 lb/gal
Percent volatile	78.45 %
Specific gravity	0.81
VOC (Weight %)	75.58 % per U.S. State and Federal Consumer Product Regulations

### 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Upon decomposition this product emits acrid dense smoke with carbon dioxide, carbon monoxide, water and other products of combustion.

### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms related to the physical, chemical and toxicological characteristics	Irritating to eyes, respiratory system and skin. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

#### Information on toxicological effects

#### Acute toxicity

Components	Species	Test Results
1-butoxy-2-propanol (CAS	5131-66-8)	
Acute		
Dermal		
LD50	Rabbit	1400 mg/kg, 24 Hours
		1.59 ml/kg, 24 Hours
	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 651 ppm, 4 Hours
Oral		
LD50	Rat	3300 mg/kg
		2.83 ml/kg
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Guinea pig	> 7426 mg/kg, 24 Hours
		> 9.4 ml/kg, 24 Hours
	Rabbit	> 7426 mg/kg, 24 Hours
		> 9.4 ml/kg, 24 Hours
Inhalation		
LC50	Rat	55700 ppm, 3 Hours
		132 mg/l, 3 Hours
		76 mg/l, 4 Hours

omponents	Species	Test Results
		50.1 mg/l
		50.1 mg/l, 8 Hours
Oral		
LD50	Mouse	5.2 g/kg
	Rat	5800 mg/kg
		2.2 ml/kg
istillates Petroleum Hydrotreate	d Heavy (CAS 64742-54-7)	
Acute		
Dermal		"
LD50	Rabbit	> 2000 mg/kg
		> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	2.18 mg/l, 4 Hours
Oral	Det	5000 mg///g
LD50	Rat	5000 mg/kg
istillates Petroleum, Hydrotreate	ea Light (UAS 64/42-4/-8)	
<b>Acute</b> Dermal		
LD50	Rabbit	> 2000 mg/kg
		> 2000 mg/kg, 24 Hours
Inhalation		> 2000 mg/kg, 24 mours
LC50	Cat	> 6.4 mg/l, 6 Hours
	Rat	> 7.5 mg/l, 6 Hours
	hat	> 4.3 mg/l, 4 Hours
		> 0.1 mg/l, 8 Hours
Oral		
LD50	Rat	> 5000 mg/kg
ght Mineral Spirits (CAS 64742-		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
		> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Cat	> 6.4 mg/l, 6 Hours
	Rat	> 7.5 mg/l, 6 Hours
		> 4.3 mg/l, 4 Hours
		> 0.1 mg/l, 8 Hours
Oral		•
LD50	Rat	> 5000 mg/kg
kin corrosion/irritation	Causes skin irritation.	
erious eye damage/eye	Causes serious eye irritation.	
ritation	-	
espiratory or skin sensitizatio	n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin	sensitization.
erm cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
arcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	

ACGIH Carcinogens Acetone (CAS 67-64-1) OSHA Specifically Regulate	A4 Not classifiable as a human carcinogen. d Substances (29 CFR 1910.1001-1050)
Not listed.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	May cause damage to organs (Central Nervous System) through prolonged or repeated exposure.
Aspiration hazard	Not likely, due to the form of the product.
Chronic effects	Prolonged inhalation may be harmful.

### 12. Ecological information

Ecotoxicity	Not expected to be harmful to aquatic organisms.

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Components	Species		Test Results
Acetone (CAS 67-64-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	10294 - 17704 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours
Distillates Petroleum, Hydrot	reated Light (CA	S 64742-47-8)	
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 mg/l, 96 hours
ersistence and degradability	Not inherently	v biodegradable.	
ioaccumulative potential	No data available for this product.		
Partition coefficient n-octa	nol / water (log	Kow)	
Acetone		-0.24	
obility in soil	Not available.		
ther adverse effects	None known.		

#### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazardous waste code	D001: Waste Flammable material with a flash point <140 F D003: Waste Reactive material
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

### 14. Transport information

DOT	
UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No

Special precautions for use Special provisions Packaging exceptions Packaging non bulk Packaging bulk	r Not available. N82 306 None None
UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	2.1
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable. No.
Environmental hazards	
Special precautions for use Other information	r Not available.
•••••	AU 1
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
IMDG	
UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No
EmS	Not available.
Special precautions for use	r Not available.
Transport in bulk according to	This substance/mixture is not intended to be transported in bulk.
Annex II of MARPOL 73/78 and	
the IBC Code	
DOT	





## 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export N	lotification (40 CFR 707, Subpt.	D)	
Not regulated.			
CERCLA Hazardous Substa			
Acetone (CAS 67-64-1) SARA 304 Emergency releas	-	_isted.	
Not regulated.	enotification		
0	d Substances (29 CFR 1910.100	1-1050)	
Superfund Amendments and Rea	authorization Act of 1986 (SAR	A)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No		
SARA 302 Extremely hazard Not listed.	ous substance		
SARA 311/312 Hazardous	Yes		
chemical	103		
SARA 313 (TRI reporting) Not regulated.			
Other federal regulations			
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (I	HAPs) List	
Not regulated.			
	112(r) Accidental Release Preve	ention (40 CFR 68.130)	
Not regulated.	Not regulated		
Safe Drinking Water Act (SDWA)	Not regulated.		
Chemical Code Number		ial Chemicals (21 CFR 1310.02(b) and 13	310.04(f)(2) and
-	nistration (DEA). List 1 & 2 Exe	6532 mpt Chemical Mixtures (21 CFR 1310.12	2(c))
Acetone (CAS 67-64- DEA Exempt Chemical M		35 %WV	
Acetone (CAS 67-64-	1) 6	6532	
US state regulations			
	bstances. CA Department of Ju	stice (California Health and Safety Code	e Section 11100)
Not listed. US. Massachusetts RTK - Su	Ibstance List		
Acetone (CAS 67-64-1) Carbon Dioxide (CAS 124	,		
-	Community Right-to-Know Act		
Acetone (CAS 67-64-1) Carbon Dioxide (CAS 124			
US. Pennsylvania Worker an Acetone (CAS 67-64-1)	d Community Right-to-Know La	aw	
Carbon Dioxide (CAS 67-64-1) Carbon Dioxide (CAS 124 US. Rhode Island RTK	-38-9)		
Acetone (CAS 67-64-1)			
		of 1986 (Proposition 65): This material is r ve toxins.	not known to contain
International Inventories			
Country(s) or region	Inventory name		On inventory (yes/no)*
Australia	Australian Inventory of Chemica		No
Canada	Domestic Substances List (DSL)		Yes
Canada	Non-Domestic Substances List (	(NDSL)	No

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

Issue date	08-29-2013
Revision date	10-07-2014
Version #	03
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision Information	Hazard(s) identification: Storage Composition / Information on Ingredients: Disclosure Overrides Toxicological information: Acute toxicity Toxicological information: Inhalation Toxicological information: Specific target organ toxicity - repeated exposure Toxicological information: Specific target organ toxicity - single exposure Toxicological information: Symptoms related to the physical, chemical and toxicological characteristics Regulatory Information: Risk Phrases - Labeling HazReg Data: International Inventories GHS: Qualifiers