MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

Material name	LPS® All Purpose Anti-Seize
Version #	04
Issue date	08-22-2012
Revision date	09-18-2012
Supersedes date	08-22-2012
CAS #	Mixture
Part Number	04108, 04110, 04105
Product use	An all-purpose, anti-seize lubricant designed to prevent seizure and galling, and resist settling and hardening of welding.
Manufacturer information	LPS Laboratories, a division of Illinois Tool Works 4647 Hugh Howell Rd Tucker, GA 30084 United States www.lpslabs.com 1-800-241-8334 / 770-243-8800 Chemtrec 1-800-424-9300

2. Hazards Identification

Emergency overview OSHA regulatory status	Harmful in contact with eyes. Prolonged exposure may cause chronic effects. This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects	· · · · · · · · · · · · · · · · · · ·
Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.
Eyes	Contact may irritate or burn eyes. Do not get this material in contact with eyes.
Skin	Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Avoid contact with the skin.
Inhalation	Prolonged inhalation may be harmful.
Ingestion	Components of the product may be absorbed into the body by ingestion. Do not ingest.
Target organs	Cardiac. Eyes. Skin.
Chronic effects	Conjunctiva. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Signs and symptoms	Conjunctivitis. Defatting of the skin. Skin irritation. Rash.
Potential environmental effects	Components of this product are hazardous to aquatic life. May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Heavy Hydrotreated Naphthenic Distillates (petroleum)	64742-52-5	40 - 60
Graphite	7782-42-5	10 - 20
Zinc Oxide	1314-13-2	10 - 20
Aluminum Complex Soap	54326-11-3	2.5 - 10
Calcium Carbonate	1317-65-3	2.5 - 10
Molydenum Disulfide	1317-33-5	2.5 - 10
Residual Oil	64742-57-0	2.5 - 10
Other components below reportable levels		0.1 - 1

4. First Aid Measures

First aid procedures	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately.
Skin contact	Remove and isolate contaminated clothing and shoes. Wash off with warm water and soap. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation develops and persists.
Inhalation	Move to fresh air. 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. Get medical attention if symptoms occur.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. If ingestion of a large amount does occur, call a poison control center immediately.
Notes to physician	In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. IF exposed or concerned: Get medical advice/attention. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

5. Fire Fighting Measures

Flammable properties	Not flammable by OSHA criteria. Not combustible by OSHA criteria.
Extinguishing media	
Suitable extinguishing media	Water.
Protection of firefighters	
Protective equipment and precautions for firefighters	Wear suitable protective equipment.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray.
Specific methods	Cool containers exposed to flames with water until well after the fire is out.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
Methods for containment	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.
Methods for cleaning up	Should not be released into the environment. Following product recovery, flush area with water. For waste disposal, see section 13 of the MSDS.
7. Handling and Storage	
Handling	DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not get this material in contact with eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Wear personal protective equipment. Avoid prolonged exposure. Avoid release to the environment.
Storage	Keep away from heat, sparks and open flame. Store in a well-ventilated place. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of

children. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH	Threshold	Limit Values
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Components	Туре	Value	Form
Aluminum Complex Soap (54326-11-3)	TWA	1 mg/m3	Respirable fraction.
Graphite (7782-42-5)	TWA	2 mg/m3	Respirable fraction.

Components	t Values Type	Value	Form
Heavy Hydrotreated Naphthenic Distillates	TWA	5 mg/m3	Inhalable fraction.
(petroleum) (64742-52-5)			
Molydenum Disulfide (1317-33-5)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Residual Oil (64742-57-0)	TWA	5 mg/m3	Inhalable fraction.
Zinc Oxide (1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.
US. OSHA Table Z-1 Limits Components	for Air Contaminants (29 CFR 1910.10 Type	000) Value	Form
Calcium Carbonate	PEL	5 mg/m3	Respirable fraction.
(1317-65-3)	I LL	3 mg/m3	Respirable fraction.
(15 mg/m3	Total dust.
Graphite (7782-42-5)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
Heavy Hydrotreated Naphthenic Distillates	PEL	5 mg/m3	Mist.
(petroleum) (64742-52-5)			
		2000 mg/m3	
	55	500 ppm	-
Molydenum Disulfide	PEL	15 mg/m3	Total dust.
(1317-33-5) Residual Oil (64742-57-0)	PEL	5 mg/m3	Mist.
Zinc Oxide (1314-13-2)	PEL	5 mg/m3	Respirable fraction.
2111C OXIDE (1314-13-2)	I EE	5 mg/m3	Fume.
		15 mg/m3	Total dust.
		10 119/110	
US. OSHA Table Z-3 (29 CF	R 1910.1000)		
US. OSHA Table Z-3 (29 CF Components	R 1910.1000) Type	Value	
Components Graphite (7782-42-5)	Type TWA	15 mppcf	
Components	Туре	15 mppcf air changes per hour) should b plicable, use process enclosu ain airborne levels below reco	res, local exhaust ventilation mmended exposure limits. If
Components Graphite (7782-42-5) ineering controls	Type TWA Good general ventilation (typically 10 a should be matched to conditions. If ap or other engineering controls to mainta exposure limits have not been establis	15 mppcf air changes per hour) should b plicable, use process enclosu ain airborne levels below reco	res, local exhaust ventilation mmended exposure limits. If
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Solubility (water)	Insoluble
Relative density	Not available.
Flash point	429.80 °F (221.00 °C) estimated
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	> 500 °F (> 260 °C) estimated
Evaporation rate	0.01 BuAc
Percent volatile	0.96 % estimated
Other data	
Density	1.19 g/cm3
Explosive limit - lower (%)	0.9
Explosive limit - upper (%)	7 %

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point.
Incompatible materials	Acids. Fluorine. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Local effects	Components of the product may be absorbed into the body through the skin. Contact may irritate or burn eyes.	
Chronic effects	Prolonged inhalation may be harmful.	
Carcinogenicity	Not applicable.	
ACGIH Carcinogens		
Aluminum Complex Soa	o (CAS 54326-11-3)	A4 Not classifiable as a human carcinogen.

12. Ecological Information

Ecotoxicity	Contains a substance which causes risk of hazardous effects to the environment.
Environmental effects	Harmful to aquatic organisms. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Persistence and degradability	Not available.

13. Disposal Considerations

Packing group

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.	
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.	
14. Transport Information		
General DOT	DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.	
Basic shipping requirements:		
UN number	UN3077	
Proper shipping name Hazard class	Environmentally hazardous substances, solid, n.o.s. (Zinc Oxide), MARINE POLLUTANT 9	

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Environmental hazards	
Marine pollutant	Yes
Special precautions	Read safety instructions, MSDS and emergency procedures before handling.
Additional information:	
Special provisions	8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33
Packaging exceptions	155
Packaging non bulk	213
Packaging bulk	240
ΙΑΤΑ	
UN number	UN3077
UN proper shipping name	Environmentally hazardous substances, solid, n.o.s. (Zinc Oxide)
Transport hazard class(es)	9
Packing group	III
Environmental hazards	Yes
Labels required	9
IMDG	
UN number	UN3077
UN proper shipping name	Environmentally hazardous substances, solid, n.o.s. (Zinc Oxide), MARINE POLLUTANT
Transport hazard class(es)	9
Subsidiary class(es)	M7
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Labels required	9
DOT; IATA	



Marine pollutant



15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. CERCLA/SARA Hazardous Substances - Not applicable.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) Not regulated.
DEA Essential Chemical Code Number Not regulated.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)) Not regulated.

DEA Exempt Chemical Mixt Not regulated.	ures Code Number	
•	Section 313 - Toxic Chemical: De minimis concentration	
Zinc Oxide (CAS 1314-13		
US EPCRA (SARA Title III) S	Section 313 - Toxic Chemical: Listed substance	
Zinc Oxide (CAS 1314-13	3-2) Listed. N982	
CERCLA (Superfund) reportable	e quantity	
None		
	eauthorization Act of 1986 (SARA)	
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
Section 302 extremely hazardous substance	No	
Section 311 hazardous chemical	No	
Inventory status		
Country(s) or region	Inventory name On inventory (yes	/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
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	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
	nents of this product comply with the inventory requirements administered by the governing country(s)	wiel
State regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This materies not known to contain any chemicals currently listed as carcinogens or reproductive toxins.	riai
US - New Jersey RTK - Subs		
Calcium Carbonate (CAS Graphite (CAS 7782-42-5 Zinc Oxide (CAS 1314-13 US - Pennsylvania RTK - Ha	5) Listed.	
Calcium Carbonate (CAS Graphite (CAS 7782-42-5 Residual Oil (CAS 64742 Zinc Oxide (CAS 1314-13	5) Listed. -57-0) Listed.	
16. Other Information		
Further information	HMIS® is a registered trade and service mark of the NPCA.	
HMIS® ratings	Health: 1 Flammability: 1 Physical hazard: 0	
NFPA ratings	Health: 1 Flammability: 1 Instability: 0	
Disclaimer	The information in the sheet was written based on the best knowledge and experience current available.	ly

This data sheet contains changes from the previous version in section(s): Product and Company Identification: Alternate Trade Names Transport Information: Proper Shipping Name/Packing Group