



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material name LPS® Food Grade Anti-Seize
Recommended use A food grade anti-seize lubricant designed to prevent seizure and galling.
Version # 01
CAS # Mixture
Part Number 06508, 06510
Supplier Name MRO Chem Pty Ltd
Address Level 19, 644 Chapel Street,
South Yarra, Vic 3141, Australia.
Tel: +61 (3)9823 6273
Website: <http://www.mrochem.com.au>
In Case of Emergency (Australia) +61 (4)3448 1129 (US) +1 703-527-3887
Manufacturer
Company name LPS Laboratories, a division of Illinois Tool Works, Inc.
Address 4647 Hugh Howell Rd., Tucker, GA 30084 (U.S.A.)
Website <http://www.lpslabs.com>
E-mail sds@lpslabs.com

2. HAZARDS IDENTIFICATION

Classification R52/53
Risk phrase(s) R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrase(s) S2 Keep out of the reach of children.
S7/9 Keep container tightly closed and in a well-ventilated place.
S20/21 When using do not eat, drink or smoke.
S24/25 Avoid contact with skin and eyes.
S29 Do not empty into drains.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S51 Use only in well-ventilated areas.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Lubricating greases, may contain organic salts of alkali&alkaline earth metals	74869-21-9	> 60
Zinc Oxide	1314-13-2	< 10

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. Get medical attention if symptoms persist.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes 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. Clean mouth with water and drink afterwards plenty of water.

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible).

Notes to physician Provide general supportive measures and treat symptomatically. Keep victim under observation.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Dry powder. Carbon dioxide (CO₂). Foam. Water spray.
Extinguishing media which must not be used for safety reasons Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards Fire may produce irritating, corrosive and/or toxic gases.
Specific methods Cool containers exposed to flames with water until well after the fire is out.
HAZCHEM code None

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep upwind. Keep out of low areas.
Environmental precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground.
Containment procedures Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up Prevent product from entering drains. Do not allow material to contaminate ground water system. Small Dry Spills: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Following product recovery, flush area with water. For waste disposal, see section 13 of the MSDS.

7. HANDLING AND STORAGE

Handling In case of insufficient ventilation, wear suitable respiratory equipment. Use personal protective equipment as required. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains. Use care in handling/storage.
Storage Store in original tightly closed container. Store in a well-ventilated place. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Zinc Oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value	Form
Zinc Oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.
		10 mg/m3	Inspirable dust.

Recommended monitoring procedures

Additional exposure data Occupational Exposure Limits are not relevant to the current physical form of the product.

Engineering measures to reduce exposure General ventilation normally adequate.

Personal protective equipment

Respiratory protection No personal respiratory protective equipment normally required. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Hand protection For prolonged or repeated skin contact use suitable protective gloves. Chemical resistant gloves are recommended.

Eye protection Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.

Skin and body protection Wear suitable gloves and eye/face protection.

General Use personal protective equipment as required.

Environmental exposure controls Environmental manager must be informed of all major releases.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Gel.
Physical state Solid.
Form Solid. Paste.
Color White.
Odor Slight.
Odor threshold Not available.

pH	Not available.
Vapor pressure	< 1 mm Hg
Vapor density	Not available.
Boiling point	> 500 °F (> 260 °C)
Melting point/Freezing point	> 449.6 °F (> 232 °C)
Solubility (water)	not soluble in water
Specific gravity	1.18 @ 20 °C
Flash point	> 449.60 °F (> 232.00 °C) Cleveland Open Cup
Flammability limits in air, upper, % by volume	7 % estimated
Flammability limits in air, lower, % by volume	0.9 % estimated
Auto-ignition temperature	Not available.
Evaporation rate	< 0 BuAc

10. STABILITY AND REACTIVITY

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Heat, flames and sparks.
Materials to avoid	Strong oxidizing substances.
Hazardous decomposition products	Carbon oxides.
Hazardous polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	May be harmful if swallowed. Based on available data, the classification criteria are not met.
Routes of exposure	Eye contact. Skin contact. Inhalation. Ingestion.
Sensitization	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Reproductivity	Based on available data, the classification criteria are not met.
Epidemiology	No epidemiological data is available for this product.
Local effects	May be irritating to eyes.
Symptoms and target organs	Irritating to mouth, throat, and stomach. Irritating to eyes and respiratory system.
Further information	Symptoms may be delayed.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Harmful to aquatic life with long lasting effects.
Persistence and degradability	No data is available on the degradability of this product.
Environmental effects	Harmful to aquatic organisms.
Aquatic toxicity	May cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

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. Do not contaminate ponds, waterways or ditches with chemical or used container.
Waste from residues / unused products	Dispose of in accordance with local regulations. Avoid discharge into water courses or onto the ground.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

ADG	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

HAZCHEM code None**15. REGULATORY INFORMATION****National regulations** This Material Safety Data Sheet was prepared in accordance with the Australia National Code of Practice for the Preparation of Material Safety Data Sheets (NOHSC: 2011.)**Australia HVIC: Listed substance**

Zinc Oxide (CAS 1314-13-2) Listed.

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)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies 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**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently available.**Issue date** 05-01-2013**This data sheet contains changes from the previous version in section(s):** Product and Company Identification: Alternate Trade Names