

Section 1 – MANUFACTURER INFORMATION

Manufacturer	IMS Company 10373 Stafford Road Chagrin Falls, OH 44023-5296 WEB imscompany.com	Emergency Phone Prepared by Prepared/Revised E-mail	800-424-9300 Product Safety Advisor March 4, 2009 sales@imscompany.com
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Products:

Item # 145221 White Lithium Spray Lubricant

Product Use: To lubricate plastics molds and other critical industrial equipment**Section 2 – INGREDIENTS INFORMATION**

Chemical/Common Name	CAS-Number	%
Liquefied Petroleum Gas	68476-86-8	5-25
Mineral Oil	64742-52-5	35-40
Lithium Thickener	4485-12-5	0-3
Light Distillate	64742-47-8	10-20
Heptane	142-82-5	20-30
Zinc Oxide	1314-13-2	0-4

Section 3 – HAZARDS IDENTIFICATION**CAUTION: CONTENTS UNDER PRESSURE****DANGER: EXTREMELY FLAMMABLE****Odor/Appearance:** White to brownish spray as dispensed from aerosol can.**POTENTIAL HEALTH EFFECTS****Routes of exposure:** Skin, eyes, inhalation, ingestion.**Eye Contact:** May cause immediate or delayed irritation. Irritation may show up as redness and/or swelling. May cause corneal damage.**Skin Contact:** Repeated or prolonged contact with skin may produce redness, irritation and/or dryness. May cause or aggravate dermatitis or other existing skin condition.**Inhalation:** Inhalation of vapors or spray mist may cause headaches, and/or nose and throat irritation.**Ingestion:** Ingestion may cause irritation to the mouth, esophagus, and/or stomach.**Signs or Overexposure:** Irritation of eyes, nose, throat, digestive tract.**Pre-existing Conditions Aggravated:** Skin and respiratory disorders. Alcoholism, kidney, liver, cardiovascular and nervous system**Target Organs:** Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible kidney effects, effects on hearing, central nervous system damage**4. First Aid Measures****Eye Contact:** Flush with warm water for 15 minutes. Seek medical attention.**Skin Contact:** Wash with soap and water. Remove any contaminated clothing and launder before reusing. If irritation persists, seek medical attention.**Inhalation:** Remove exposed individual to fresh air, protecting yourself. Restore breathing if necessary. Contact a physician.**Ingestion:** Immediately give the person two large glasses of water. Do not induce vomiting. Get medical attention immediately.***** **Do not give an unconscious or convulsing person anything by mouth!** *****

5. Fire Fighting Measures

Flash Point: Flash point of propellant <0° F.

Flammable limits in air, % by volume: Upper: No Information Lower: No Information

Extinguishing Media: Dry chemical, carbon dioxide, halon or foam is recommended. Water spray may be used to cool containers or structures. Halon may decompose into toxic materials, and carbon dioxide will displace oxygen. Take proper precautions when using these materials.

Unusual Fire & Explosion Hazards: This material may be ignited by extreme heat, sparks, flames or other ignition sources (including static electricity). Vapors are heavier than air and will collect in low areas (including sewers) or travel considerable distances. If containers are not cooled in a fire, they may rupture and ignite.

Special Fire Fighting Procedures: At elevated temperatures (over 130° F) aerosol container may burst, vent or rupture; use equipment or shielding to protect personnel. Cooling exposed containers with streams of water may be helpful. Emergency responders should wear self-contained breathing apparatus. Wear other protective gear as conditions warrant. Keep unauthorized people out and try to contain spills or leaks if it can be done safely. Material will float on water, avoid spreading the fire.

6. Accidental Release Measures

Spill or Leak Instructions: Avoid breathing vapors. Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind. Keep out of low areas where vapors could accumulate. Ventilate to reduce concentration of components below their exposure limits. Use protective equipment consistent with the situation. Assess the spill situation, as the spill may not evolve large amounts of hazardous airborne contaminants in many outdoor spill situations. It may be advisable in some cases to simply monitor the situation until spilled product is removed.

Pick up spilled liquid on absorbent material. If large release occurs indoors, turn off HVAC system to prevent vapors from contaminating entire building. Lubricants are likely to be deposited on floors, making them slippery. Immediately scatter sand or similar anti-slip material to prevent slip and fall injuries. Thoroughly clean floors to remove residual lubricants before returning them to service.

Place leaking containers in well-ventilated area.

If required, notify state and local authorities.

7. Handling and Storage

Handling: Store below 120°F in cool, dry area, out of direct sunlight and away from strong oxidizers. Do not puncture or burst. Use in accordance with good workplace practices. Use with adequate ventilation. Keep containers closed when not in use. Always open containers slowly to allow any excess pressure to vent. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Decontaminate soiled clothing thoroughly before re-use. Destroy contaminated leather clothing.

Empty containers may contain residues from the product. Treat empty containers with the same precautions as the material last contained. Do not cut, weld or apply heat to empty containers Do not incinerate

Storage: Store in a cool, dry area, away from heat or direct sunlight. Keep containers closed when not in use. Do not store with incompatible materials

8. Exposure Controls / Personal Protection

Protective Equipment: Use synthetic gloves if necessary to prevent excessive skin contact. Do not wear contacts and always use ANSI approved safety glasses or splash shield.

Engineering Controls: General or dilution ventilation is frequently sufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Use a NIOSH approved respirator if ventilation is not adequate to maintain exposures below TLV levels.

8. Exposure Controls / Personal Protection (continued)

Respiratory Protection: Use adequate ventilation to maintain exposure limits. If the exposure limits of the products or any of its components are exceeded, an approved organic vapor mask should be used (consult your safety equipment supplier). Above 1000 ppm, an approved self-contained breathing apparatus or airline respirator with full face-piece is required

Other Suggested Equipment: Eye wash station and emergency showers should be available. Spill containment equipment should be available.

Discretion Advised: IMS takes no responsibility for determining what measures are required for personal protection in any specific application. The general information should be used with discretion.

Exposure guidelines:

Ingredients	CAS #	Percent	Exposure Limits
Liquefied Petroleum Gas	68476-86-8	15-25 %	OSHA (PEL) 1000 ppm ACGIH TLV 1000 ppm
Mineral Oil	64742-52-5	35-40 %	OSHA TVL (Oil Mist) 5mg/m ³
Lithium Thickener	4485-12-5	0-3%	OSHA TVL (Oil Mist) 5mg/m ³
Light Distillate	64742-47-8	10-20%	Recommended TWA 100 ppm
Heptane	142-82-5	20-30%	OSHA (PEL) 500 ppm ACGIH (TWA) 400 ppm
Zinc Oxide	1314-13-2	0-4%	Not Available

9. Physical and Chemical Properties

Boiling Point:	NA	Specific Gravity:	<1
Vapor Density (Air = 1):	>1	Water Solubility:	Negligible
Evaporation Rate (Ether = 1):	Slower		

Odor/Appearance: Clear to white mist as dispensed from aerosol can.

10. Stability and Reactivity

Stability: Stable

Conditions to Avoid: Heat, sparks and open flame

Incompatibility: Strong oxidizing agents

Hazardous Decomposition: Combustion will produce carbon monoxide, carbon dioxide and nitrogen-oxygen compounds.

Hazardous Polymerization: Will not occur

11. Toxicological Information**Component Toxicological Information:**

Acute oral toxicity n-HEPTANE	LD 50 Rat: > 15,000 mg/kg
Acute inhalation toxicity n-HEPTANE	LC 50 Rat: 103 g/m ³ , 4 h
Acute dermal toxicity n-HEPTANE	LD 50 Rabbit: > 2,001 mg/kg

13. Disposal Considerations

Do not puncture or burn containers. Give empty, leaking, or full containers to disposal service equipped to handle and dispose of aerosol (pressurized) containers. Dispose of spilled material in accordance with state and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

Note that this handling and disposal information may also apply to empty containers, liners and rinsate.

State or local regulations or restrictions are complex and may differ from federal regulations. This information is intended as an aid to proper handling and disposal; the final responsibility for handling and disposal is

with the owner of the waste. See Section 9 - Physical and Chemical Properties.

14. Transport Information

Ground (US DOT)

Consumer Commodity
Class ORM-D, ERG 126

or

Aerosols (limited quantity),
Class 2.1, ERG 126

AIR (IATA)

Aerosols (limited quantity),
Class 2.1, ERG 126, UN No. 1950

Vessel

Aerosols (limited quantity),
Class 2.1, UN No. 1950

15. Regulatory Information

ENVIRONMENTAL REGULATIONS

SARA 302/304:

None

SARA 311/312:

Immediate (x) Delayed () Fire (x) Reactive () Sudden Release of Pressure (x)

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This product contains:

Zinc Oxide	1314-13-2	<4%
N-Heptane	142-82-3	20-25%

Californian Prop. 65:

WARNING! This product contains a chemical known in the State of California to cause cancer.

BENZENE

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

BENZENE

TOLUENE

All the chemicals used in this product are TSCA listed.

Check with your local regulators to be sure all local regulations are met.

16. Other Information

Hazard ratings: This information is intended solely for the use of individuals trained in the NFPA and/or HMIS systems.

NFPA: Level 3 Aerosol

HMIS: Health: 1 Flammability: 4 Reactivity: 0

Where: 4 = EXTREME 3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICANT

Note: For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. IMS Company makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid, or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards. Possession of an MSDS does not indicate that the possessor of the MSDS was a purchaser or user of the subject product.