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**MATERIAL SAFETY DATA SHEET (M.S.D.S.)**  
**LOCK SAVER GREASE**

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**SECTION 1 - MANUFACTURER INFORMATION**

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**SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY**

1. No ingredients are considered hazardous under 40 CFR 372 and 49 CFR 172.101
2. Other Ingredients include:
3. A mixture of synthetic oils (esters) & highly refined mineral oils. TLV: 5 mg/m<sup>3</sup> oil mist
4. Calcium Sulfonate/Carboxylate Complex: mixture in highly refined mineral oil. TLV: 5 mg/m<sup>3</sup> oil mist
5. Phosphate Ester: < 5 mg/m<sup>3</sup>
6. V.O.C. = 0 (Contains less than 0.1%)

**SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS**

1. *Boiling Point:* N/A
2. *Specific Gravity (H<sub>2</sub>O=1):* 1.29
3. *Solubility in Water (Long Term):* None
4. *Appearance and Odor:* Off-white, Sweet
5. *Vapor Pressure (mm Hg):* N/A
6. *Vapor Density (Air=1):* N/A
7. *Reactivity in Water:* None
8. *Melting Point:* N/A

**SECTION 4 - FIRE & EXPLOSION DATA**

1. *Flash Point (COC):* 475°F (246°C)
2. *Flammable Limits in Air % by Volume:* LEL Lower: N/A UEL Upper: N/A
3. *Auto-Ignition Temperature:* 475°F (246°C)
4. *Extinguisher Media:* Foam, CO<sub>2</sub>, Dry Chemicals
5. *Special Fire Fighting Procedures:* Use self-contained breathing apparatus.
6. *Unusual Fire and Explosion Hazards:* Inhalation of thermal decomposition products of fluorocarbons must be avoided for the same reasons that apply to all combustible materials.

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**SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)**

1. *Stability:* Stable
2. *Conditions to Avoid:* Sustained temperatures over 600°F (315°C), strong acids and bases, oxidizing agents
3. *Incompatibility:* None Known
4. *Hazardous Decomposition Products:* Thermal decomposition may produce CO, HF and/or phosphorus oxide.
5. *Hazardous Polymerization:* Will not occur

**SECTION 6 - HEALTH HAZARDS**

1. *Acute:* None known
2. *Chronic:* Prolonged exposure to skin and prolonged inhalation.
3. *Signs and Symptoms of Exposure:* Eye or skin irritation.
4. *Medical Conditions Generally Aggravated by Exposure:* None known, but allergies possible.
5. *Chemical Listed as carcinogen or potential carcinogen:*  
*National Toxicology Program:* None  
*I.A.R.C. Monographs:* None  
*OSHA:* None
6. *Emergency and First Aid Procedures:*  
*Skin Contact:* Wash skin with detergent and water.  
*Eye Contact:* Flush eyes with water for 15 minutes and call a doctor.  
*Ingestion:* DO NOT induce vomiting, drink plenty of water and call a doctor.
7. *Routes of Entry*  
*Inhalation:* Low to medium, remove to fresh air.  
*Eyes:* Irritant, flush with water for 15 minutes and protect from splattering.  
*Skin:* Irritant, wear gloves or wash thoroughly with detergent and water after exposure.  
*Ingestion:* Low to medium, use good hygienic practice and do not ingest, wash hands before eating.

**SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES**

1. *Precautions to be Taken in Handling and Storage:* Use caution to limit exposure to eyes and skin.
2. *Steps to be Taken in Case Material is Released or Spilled:* Contain spill and use an absorbent material to clean up contaminated area. Place in container and recover or incinerate as a fluorocarbon. Do not allow to flow into sewers or waterways.
3. *Waste Disposal Methods:* Obey local, state and federal regulations.
4. *Other Precautions:* Use of goggles, rubber gloves and protective clothing is suggested.

**SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES**

1. *Respiratory Protection:* Protect from mist inhalation.
2. *Ventilation:* Local
3. *Mechanical Exhaust:* Recommended
4. *General Exhaust:* Recommended
5. *Protective Gloves:* Rubber recommended.
6. *Eye Protection:* Goggles advisable but not required.
7. *Other Protective Clothing or Equipment:* None necessary.
8. *Work/Hygienic Practice:* Wash skin after use, wash contaminated clothing.

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