



## MATERIAL SAFETY DATA SHEET

### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

<b>MANUFACTURER/SUPPLIER:</b> <b>US Office:</b> WD-40 Company 1061 Cudahy Place San Diego, CA 92110  <b>Information Phone #: (619) 275-1400</b> <b>Emergency Phone # 24 hr:</b> <b>Chemtrec: (800) 424-9300</b> – Designated for use only in the event of chemical emergencies involving a spill, leak, fire exposure or accident involving chemicals.	<b>Canadian Office:</b> WD-40 Products [Canada] Ltd. P.O. Box 220 Toronto, Ontario M9C 4V3  <b>Information Phone #: (416) 622-9881</b> <b>Emergency Phone # 24 hr:</b> <b>Canutec: (613) 996-6666</b> – Designated for use only in the event of chemical emergencies involving a spill, leak, fire exposure or accident involving chemicals
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PRODUCT NAME: 3-IN-ONE PROFESSIONAL WHITE LITHIUM GREASE  
PRODUCT USE: Lubricating Grease.  
MSDS DATE OF PREPARATION: March 22, 2008

### SECTION 2 HAZARDS IDENTIFICATION

**DANGER!** Harmful or fatal if swallowed. Extremely Flammable aerosol. Contents under pressure. If swallowed, may be aspirated into the lungs and cause lung damage. May cause eye, skin and respiratory tract irritation. Avoid eye contact. Use with adequate ventilation. Keep away from heat, sparks and all other sources of ignition.

**POTENTIAL HEALTH EFFECTS:**

**PRIMARY ROUTES OF ENTRY:** Inhalation, skin and eye contact.

**ACUTE EFFECTS:**

**INGESTION:** This product has low oral toxicity. If swallowed, this material may cause irritation of the mouth, throat and esophagus. Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea, dizziness, drowsiness, loss of consciousness, delirium and other central nervous system effects. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.

**EYES:** Contact may be mildly irritating to eyes. May cause redness, stinging, swelling and tearing.

**SKIN:** May cause mild skin irritation with short-term exposure with redness, itching and burning of the skin. Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.

**INHALATION:** Mist or vapor can irritate the throat and lungs. High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.

**CHRONIC EFFECTS:** None expected.

### SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Percent
Petroleum Solvent	64742-47-8	25-35%
Lithium Grease	Mixture	15-25%
Zinc Oxide	1314-13-2	<1-5%
Propellant (propane, n-butane)	74-98-6/106-97-8	35-45%

SECTION 4 FIRST AID MEASURES

**For Medical Emergencies Call 1-888-324-7596 (24 hours/day)**

**INGESTION:** Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.

**EYE CONTACT:** Flush thoroughly with water. Get medical attention if irritation persists.

**SKIN CONTACT:** Wash with soap and water. If irritation develops and persists, get medical attention.

**INHALATION:** If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

SECTION 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.

**UNUSUAL FIRE/EXPLOSION HAZARDS:** Contents under pressure. Keep away from ignition source and open fire. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force.

Combustible liquid and vapor. This material can release flammable vapors when heated above ambient temperatures. Vapors can cause a flash fire. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. A vapor and air mixture can create an explosion hazard in confined spaces.

SECTION 6. ACCIDENTAL RELEASE MEASURES

**SPILL RESPONSE:** Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area. Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

SECTION 7. HANDLING AND STORAGE

**HANDLING:** Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use with adequate ventilation. Keep away from heat, sparks and open flames. Wash thoroughly with soap and water after handling. Do not puncture or incinerate containers. Keep can away from electrical current or battery terminals. Electrical arcing can cause burn-through (puncture) which may result in flash fire, causing serious injury. Keep out of the reach of children.

**STORAGE:** Do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 3 Aerosol.

SECTION 8. EXPOSURE CONTROLE/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

Petroleum Solvent	200 ppm TWA ACGIH TLV
Lithium Grease	None Established
Zinc Oxide	5 mg/m <sup>3</sup> (respirable), 15 mg/m <sup>3</sup> (total dust) TWA OSHA PEL 2 mg/m <sup>3</sup> TWA, 10 mg/m <sup>3</sup> STEL (respirable) ACGIH TLV
Propane	1000 ppm TWA ACGIH TLV (aliphatic hydrocarbon gas)
n-Butane	1000 ppm TWA ACGIH TLV (aliphatic hydrocarbon gas)

**The Following Controls are Recommended for Normal Consumer Use of this Product**

**Engineering Controls:** Use in a well-ventilated area.

**Personal Protection:**

**Eye Protection:** Avoid eye contact. Always spray away from face.

**Skin Protection:** Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.

**Respiratory Protection:** None needed for normal use with adequate ventilation.

**For Bulk Processing or Workplace Use the Following Controls are Recommended**

**Engineering Controls:** Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

**Personal Protection:**

**Eye Protection:** Safety goggles recommended where eye contact is possible.

**Skin Protection:** Wear chemical resistant gloves.

**Respiratory Protection:** None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

**Work/Hygiene Practices:** Wash with soap and water after handling.

SECTION 9. PHYSICAL DATA

APPEARANCE AND ODOR: Light amber liquid with a mild odor.

Boiling Point:	218-257°C (424-495°F) (Petroleum Solvent)	Specific Gravity:	0.74
Solubility in Water:	Insoluble	pH:	Not Applicable
Vapor Pressure:	35-60 PSI @ 21°C	Vapor Density:	Greater than 1
Percent Volatile:	76.6%	VOC:	Not Determined
Coefficient of Water/Oil Distribution:	Not Determined	Flash Point: Flammable Limits:	-20°F (TOC) LEL: 1.8% UEL: 9.5%

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY: Strong oxidizing agents, acids and bases. Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate containers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, smoke, and unburned hydrocarbons.

SECTION 11 TOXICOLOGICAL INFORMATION

The oral toxicity of this product is estimated to be greater than 5,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

None of the components of this product is listed as a carcinogen or suspected carcinogen or is considered a reproductive hazard.

SECTION 12 ECOLOGICAL INFORMATION

No data is currently available.

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: If this product becomes a waste, it would be expected to meet the criteria of a hazardous waste based on flammability. However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Dispose in accordance with federal, state, and local regulations. Do not puncture or incinerate containers.

SECTION14 TRANSPORT INFORMATION

U.S. DOT Hazard Classification: Consumer Commodity, ORM-D

Canadian TDG Classification: Limited Quantity

IMDG Code Hazard Classification: UN1950, Aerosols, 2.1

SECTION15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills as required under federal, state and local regulations.

SARA TITLE III:

Hazard Category For Section 311/312: Acute Health, Fire Hazard, Sudden Release of Pressure

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313

Reporting requirements: Zinc Oxide (zinc compound) <1-5%

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

CANADIAN REGULATIONS:

Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List or exempt from notification

Canadian WHMIS Classification: Class B-5 (Flammable Aerosol), Class D-2-B (Toxic Material causing other toxic effects)

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

Section 16 – Other Information\_\_

**HMIS Hazard Rating: Health – 1 (slight hazard), Fire Hazard – 4 (severe hazard), Physical Hazard – 0 (minimal hazard)**

Revision Date: 03/22/08

Supersedes: 06/29/05

Prepared By: Industrial Health & Safety Consultants, Inc.

This MSDS complies with OSHA guidelines set by 29 CFR 1910.1200 and the Canadian WHMIS regulations. The foregoing information has been compiled from sources believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance of need that data is correct. Standards change without notice. It is the responsibility of the recipient to insure that their personnel have been notified of any changes which may affect them. The data provided on this MSDS are not meant to be used as specifications, only as guideline information as to the safe use of this product. User should refer to applicable laws before use.

N/D = Not Determined N/E = Not Established N/A = Not Applicable