



SPECIALIST.



Safety Data Sheet



1 - Identification

Trade Name: WD-40 Specialist High Performance White Lithium Grease Product Use: Cleaner, Lubricant Restrictions on Use: None identified SDS Date Of Preparation: November 18, 2016	Canadian Office: WD-40 Products [Canada] Ltd. P.O. Box 220 Toronto, Ontario M9C 4V3 Information Phone #: (416) 622-9881 Emergency Phone # 24 hr: Canutec: (613) 996-6666 - Designated for use only in the event of chemical emergencies involving a spill, leak, fire exposure or accident involving chemicals
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2 – Hazards Identification

WHMIS 2015/GHS Classification:

Flammable Aerosol Category 1
 Gas Under Pressure: Compressed Gas
 Aspiration Toxicity Category 1

Note: This product is a consumer product and is labeled in accordance with the Consumer Chemicals and Containers Regulations (CCCR) which take precedence over WHMIS 2015 labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

Label Elements:**DANGER!**

Extremely Flammable Aerosol.
 Contains gas under pressure; may explode if heated.
 May be fatal if swallowed and enters airways.

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Do not spray on an open flame or other ignition source.
 Do not pierce or burn, even after use.

Response

IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.

Storage

Store locked up.
 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place.

Disposal

Dispose of contents and container in accordance with local and national regulations.

3 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent	WHMIS 2015/ GHS Classification
Petroleum Solvent (LVP)	64742-47-8 64742-88-7	45-65%	Aspiration Toxicity Category 1

Liquefied Petroleum Gas (n-Butane, Isobutane)	68476-86-8	30-40%	Flammable Gas Category 1 Gas Under Pressure, Compressed Gas
Petroleum Distillates, Hydrotreated Heavy Paraffin	64742-54-7	<10%	Not Hazardous
Calcium Sulfonate	Proprietary	<5%	Not Hazardous
Titanium Dioxide	13463-67-7	<1%	Carcinogen Category 2*

* Carcinogen classification applies to respirable forms only. Not applicable to this product.

4 – First Aid Measures

Ingestion (Swallowed): 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 (Breathing): If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

Signs and Symptoms of Exposure: Harmful or fatal if swallowed. Aspiration into the lungs during ingestion or vomiting may cause lung damage. May cause eye and respiratory irritation. Inhalation may cause coughing, headache and dizziness. Prolonged skin contact may cause drying of the skin.

Indication of Immediate Medical Attention/Special Treatment Needed: Immediate medical attention is needed for ingestion.

5 – Fire Fighting Measures

Suitable (and unsuitable) 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.

Specific Hazards Arising from the Chemical: Extremely flammable aerosol. Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. 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. Combustion will produce oxides of carbon, smoke, and unburned hydrocarbons.

Special Protective Equipment and Precautions for Fire-Fighters: 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.

6 – Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area.

Methods and Materials for Containment/Cleanup: 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.

7 – Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes and skin. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty. Intentional misuse by deliberately concentrating vapors and inhaling can be harmful or fatal.

Conditions for Safe Storage: Store in a cool, well-ventilated area, away from incompatible materials Do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 3 Aerosol. Store away from oxidizers.

8 – Exposure Controls/Personal Protection

Chemical	Occupational Exposure limits
Petroleum Solvent (LVP)	1200 mg/m ³ TWA (manufacturer recommended)
n-Butane	1000 ppm STEL ACGIH TLV 800 ppm TWA Canada- Québec 800 ppm TWA Canada- Ontario (as Aliphatic Hydrocarbon gases [C1-C4]) 600 ppm TWA, 750 ppm STEL British Columbia
Isobutane	1000 ppm STEL ACGIH TLV (as Butane, all isomers) 800 ppm TWA Canada- Ontario (as Aliphatic Hydrocarbon gases [C1-C4])
Petroleum Distillates, Hydrotreated Heavy Paraffin	5 mg/m ³ (inhalable) TWA ACGIH TLV (as mineral oil) 5 mg/m ³ TWA, 10 mg/m ³ STEL Canada-Ontario (as oil mist, mineral) 5 mg/m ³ TWA, 10 mg/m ³ STEL Canada-Québec (as oil mist, mineral) 1 mg/m ³ TWA British Columbia (as Oil mist-mineral, severely refined)
Calcium Sulfonate	None Established
Titanium Dioxide	10 mg/m ³ TWA ACGIH TLV 10 mg/m ³ TWA Canada-Ontario 10 mg/m ³ TWA Canada-Québec 10 mg/m ³ TWA British Columbia

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

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

Personal Protection:

Eye Protection: Avoid eye contact. Always spray away from your 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

Appropriate 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.

9 – Physical and Chemical Properties

Appearance:	Colorless liquid	Flammable Limits:	LEL: 0.6% UEL: 5% (Petroleum Solvent)
Odor:	Petroleum odor	Vapor Pressure:	0.009 kPa (0.07 mm Hg) at 20 C
Odor Threshold:	Not established	Vapor Density:	5.3 (Petroleum Solvent)
pH:	Not Applicable	Relative Density:	0.87
Melting/Freezing Point:	Not established	Solubilities:	Insoluble in water
Boiling Point/Range:	221-271°C (430-520°F) (Petroleum Solvent)	Partition Coefficient; n- octanol/water:	Not established
Flash Point:	<-30°C (-22°F) (CC ASTM D3828)	Autoignition Temperature:	Not established
Evaporation Rate:	Not established	Decomposition Temperature:	Not established
Flammability (solid, gas):	Flammable Aerosol	Viscosity:	Not established
VOC:	40%	Pour Point:	Not established

10 – Stability and Reactivity

Reactivity: Not reactive under normal conditions

Chemical Stability: Stable

Possibility of Hazardous Reactions: May react with strong oxidizers generating heat.

Conditions to Avoid: Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate containers.

Incompatible Materials: Strong oxidizing agents, acids and bases.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, smoke, and unburned hydrocarbons.

11 – Toxicological Information

Symptoms of Overexposure:

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.

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

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

Ingestion: Swallowing is an unlikely route of exposure for an aerosol product. If swallowed, this material may cause irritation of the mouth, throat and esophagus. Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea, dizziness, drowsiness 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.

Chronic Effects: None expected.

Carcinogen Status: This product contains Titanium dioxide which is listed by IARC as a suspected carcinogen (2B). Titanium dioxide only presents a risk of cancer by inhalation of very fine dust. In this product, the titanium dioxide is incorporated into the grease and is not present as a respirable dust. There is no exposure to respirable titanium dioxide dust in the normal use of this product. None of the other components are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.

Reproductive Toxicity: None of the components is considered a reproductive hazard.

Numerical Measures of Toxicity:

The oral toxicity of this product is estimated to be greater than 5,000 mg/kg and the dermal toxicity greater than 2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

12 – Ecological Information

Ecotoxicity: No specific aquatic toxicity data is currently available.

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: None known

13 - Disposal Considerations

Aerosol containers should not be punctured, compacted in home trash compactors or incinerated. Empty containers may be disposed of through normal waste management options. Dispose of all waste product, absorbents, and other materials in accordance with applicable Federal, state and local regulations.

14 – Transportation Information

DOT Surface Shipping Description: UN1950, Aerosols, 2.1 Ltd. Qty

(Note: Shipping Papers are not required for Limited Quantities unless transported by air or vessel – each package must be marked with the Limited Quantity Mark)

Canadian TDG Classification: Limited Quantity

IMDG Shipping Description: UN1950, Aerosols, 2.1, LTD QTY

ICAO Shipping Description: UN1950, Aerosols, flammable, 2.1

NOTE: WD-40 Company does not test aerosol cans to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our aerosol products be transported by air.

15 – Regulatory Information

National Pollutant Release Inventory (NPRI): This product contains the following chemicals that are listed on the NPRI Substance List: Petroleum Solvent (LVP) (64742-47-8, 64742-88-7) 45-65%, Liquefied Petroleum Gas (n-Butane, Isobutane) 30-40%

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

16 – Other Information

HMIS Hazard Rating:

Health – 1 (slight hazard), Fire Hazard – 4 (severe hazard), Physical Hazard – 0 (minimal hazard)

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Supersedes: January 23, 2015

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Regulatory Affairs Department

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