Material Safety Data Sheet

1 - Chemical Product and Company Identification

**Manufacturer:** WD-40 Company  
**Address:** 1061 Cudahy Place (92110)  
P.O. Box 80607  
San Diego, California, USA  
92138 -0607  
**Telephone:**  
Emergency only: 1-888-324-7596 (PROZAR)  
Information: 1-888-324-7596  
Chemical Spills: 1-800-424-9300 (Chemtrec)  
1-703-527-3887 (International Calls)

**Chemical Name:** Organic Mixture  
**Trade Name:** 3-IN-ONE Professional Garage Door Lube  
**Product Use:** Aerosol Lubricant  
**MSDS Date Of Preparation:** 11/04/2012

2 – Hazards Identification

**Emergency Overview:**  
**DANGER!** Extremely flammable aerosol. Contents under pressure. Avoid heat, sparks and flames. Harmful or fatal if swallowed. Harmful if intentionally inhaled. If swallowed, may be aspirated and cause lung damage. May cause eye, skin and respiratory tract irritation. Repeated contact may cause an allergic skin reaction. Avoid eye contact. Use only with adequate ventilation. Keep away from heat, sparks, flames and all other sources of ignition.

**Symptoms of Overexposure:**  
**Inhalation:** 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 possible dermatitis. Repeated contact may cause an allergic skin reaction and/or a photosensitization (sensitivity to sunlight).  
**Eye Contact:** Contact may be irritating to eyes. May cause redness, stinging, swelling and tearing.  
**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.  
**Chronic Effects:** None expected.  
**Medical Conditions Aggravated by Exposure:** Preexisting eye, skin and respiratory conditions may be aggravated by exposure.

**Suspected Cancer Agent:**  
Yes  No  X

3 – Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>Weight Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic Petroleum Distillates</td>
<td>64742-47-8</td>
<td>50-60</td>
</tr>
<tr>
<td>Polydimethylsiloxane</td>
<td>63148-62-9</td>
<td>2-4</td>
</tr>
<tr>
<td>White Mineral Oil</td>
<td>8042-47-5</td>
<td>2-4</td>
</tr>
<tr>
<td>Liquefied Petroleum Gas (propane, n-butane)</td>
<td>68476-86-8</td>
<td>35-45</td>
</tr>
</tbody>
</table>

See Section 8 for Exposure Limits

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.
**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 in areas where chemicals are used and stored. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.

**Unusual Fire and Explosion Hazards:** 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. 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.

**6 – Accidental Release Measures**

Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area. 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**

**Handling:** Avoid contact with eyes. Avoid contact with eyes. Avoid prolonged contact with 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.

**Storage:** Do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 3 Aerosol. Do not place can in hot water or near radiators, stoves or other sources of heat. Protect from physical damage.

**8 – Exposure Controls/Personal Protection**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Occupational Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic Petroleum Distillates</td>
<td>1200 mg/m3 TWA (manufacturer recommended)</td>
</tr>
<tr>
<td>Polydimethylsiloxane</td>
<td>None Established</td>
</tr>
<tr>
<td>White mineral oil</td>
<td>5 mg/m3 TWA ACGIH TLV</td>
</tr>
<tr>
<td></td>
<td>5 mg/m3 TWA OSHA PEL</td>
</tr>
<tr>
<td>Liquefied Petroleum Gas</td>
<td>1000 ppm TWA ACGIH TLV (as aliphatic hydrocarbon gas)</td>
</tr>
<tr>
<td></td>
<td>1000 ppm TWA OSHA PEL (as propane)</td>
</tr>
</tbody>
</table>

**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 OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

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

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### 9 – Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>161-257°C (322-495°F) (Petroleum Solvent)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.81</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>40-60 psig @ 70°F</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Greater than 1</td>
</tr>
<tr>
<td>Percent Volatile</td>
<td>&gt;90%</td>
</tr>
<tr>
<td>VOC</td>
<td>49%</td>
</tr>
<tr>
<td>Coefficient of Water/Oil Distribution</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Appearance/Odor</td>
<td>Clear, aerosol spray with a petroleum odor.</td>
</tr>
<tr>
<td>Flash Point</td>
<td>-29.2°F (closed cup) liquid</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>LEL: 0.6%</td>
</tr>
<tr>
<td></td>
<td>UEL: 9.5%</td>
</tr>
</tbody>
</table>

### 10 – Stability and Reactivity

**Stability:** Stable  
**Hazardous Polymerization:** Will not occur.  
**Conditions to Avoid:** Avoid heat, flames and other sources of ignition. Do not puncture or incinerate containers.  
**Incompatibilities:** Strong oxidizing agents.  
**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, silicon oxides, formaldehyde, smoke, fumes and unburned hydrocarbons.

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### 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.

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### 12 – Ecological Information

No data is currently available.

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### 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. If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). 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.

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### 14 – Transportation Information

DOT Surface Shipping Description: Consumer Commodity, ORM-D  
After 1/1/2014 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

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15 – 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 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 Reporting requirements: None
**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 Environmental Protection Act:** All of the ingredients are listed on the Canadian Domestic Substances List, the Canadian non-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.

16 – Other Information:

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

Prepared by: Industrial Health & Safety Consultants, Inc. Shelton, CT, USA

**SIGNATURE:** ___________________________ **TITLE:** Adm. Scientific Manager

**REVISION DATE:** November 2012 **SUPERSEDES:** April 2011

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No.00150 R1