

# WD-40® Technical Data Sheet



For product NOT FOR SALE in California.

For California product, refer to the CA-Only Technical Data Sheet

## Typical Physical Characteristics — USA

<b>Appearance:</b> Aerosol — Aerosolized Liquid Bulk — Liquid <b>Color:</b> Light amber cloudy liquid <b>Odor:</b> Characteristic <b>Freeze Point/Pour Point:</b> < -81° F (-63° C)(ASTM D-97) <b>Kinematic Viscosity @ 100° F (38° C):</b> 2.8 cSt <b>Specific Gravity @ 77° F (25° C):</b> 0.81	<b>Boiling Point (initial):</b> 360° F (183° C) <b>Vapor Density:</b> >1 <b>Flash Point:</b> 122° F (49° C)(TCC) <b>Percent Volatile:</b> 70 - 75% by weight <b>VOCs:</b> 49.5% by weight <b>Lower flammability limit:</b> 0.6% <b>Upper flammability limit:</b> 8.0% <b>Vapor Pressure:</b> Aerosol: 95-115 psi @ 70° F (21° C) Bulk: 1 psi @ 100° F (38° C)(ASTM D323)
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## Product Features

WD-40 lubricates moving parts such as hinges, wheels, rollers, chains, and gears. It protects against rust and corrosion on items like tools, and sporting equipment. It penetrates to free stuck corroded parts like nuts, bolts, valves and locks. It quickly removes adhesives, corrosion and paint. It displaces moisture to restore water flooded equipment such as engines, spark plugs and power tools.

## Packages

<b>Smart Straw®</b> 8oz NSN 8030-01-418-9006 11oz NSN 8030-01-418-9008 12oz	
<b>Industrial Size</b> 16oz NSN 8030-00-838-7789	
<b>Big Blast®</b> 18oz NSN 8030-01-439-0681	
<b>Handy Can</b> 3oz NSN 8030-01-418-9007	
<b>Trigger Pro® Non-Aerosol</b> 20oz	
<b>Spray Applicator Bottle</b> 16oz (Empty)	
<b>Bulk Liquid</b> 1 Gallon 5 Gallon 55 Gallon NSN 8030-00-838-7788	

## Fluid Properties

Operating Temperature: -60° F to 300° F (-50° C to 150° C)  
Dielectric Strength: 38,000 volts per 0.10 inch  
Solubility in Water: Insoluble

Kb Value: 25  
Wet Film Thickness: 50 um (0.002 inch)  
Coverage: 600-1000 ft<sup>2</sup> per gal

## Surface Compatibility

For all variations : WD-40 demonstrates none to negligible deleterious effect to plastic, rubber, and metal hard surfaces. This includes Acetal, neoprene/hard rubber, HDPE, PPS Copolymer Polysulfone, Teflon, Viton, steel, galvanized steel hot dip, electroplated, copper, brass, magnesium, nickel, tin plate, titanium, and zinc.

## Surface Cautions

Nearly all surfaces interact with WD-40 as they would any high grade aliphatic petroleum spirit. Certain types of rubber will swell upon prolonged immersion. Wax polishes and certain wax coatings may be softened by WD-40. Clear polycarbonate and polystyrene may stress craze or crack. Always test surfaces first.

## Typical Performance - WD-40® Multi-Use Product

Test Method	Property	Results
ASTM D4172	Lubricates and Protects	0.70 mm at 77° F
ASTM D3233	Extreme Pressure Lubrication	1200 lbs
ASTM B-117	Corrosion Protection (Salt Spray)	0 – 20% in 72 hours

## WD-40 and the Environment

- WD-40 Multi-Use Product does not contain chlorofluorocarbons (CFCs), (HCFCs)
- WD-40 Multi-Use Product does not contain Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (Cr6), Polybrominated biphenyls (PBB), or Polybrominated diphenylether complying with the restricted substances listed in Article 4(1) of the RoHS Directive.
- WD-40 Multi-Use Product contains no ingredients requiring California Prop 65 listing or labeling such as benzene or toluene.
- WD-40 Multi-Use Product complies with VOC regulations in all states except California.
- WD-40 Multi-Use Product is inherently biodegradable according to OECD Method 301
- Aerosol products are recyclable, just like any other empty steel container! Thousands of communities now include aerosol product recycling in both household residential and curbside buy-back and drop-off programs. The U.S. EPA recommends that all aerosol containers be recycled once they are empty.



## Safety

**WD-40 Aerosol: DANGER!** Flammable aerosol. Contents under pressure. Harmful or fatal if swallowed. If swallowed, may be aspirated and cause lung damage. May cause eye irritation. Avoid eye contact. Use with adequate ventilation. Keep away from heat, sparks and all other sources of ignition.

**WD-40 Bulk Liquid: DANGER!** Combustible liquid. Harmful or fatal if swallowed. If swallowed, may be aspirated and cause lung damage. May cause eye irritation. Avoid eye contact. Use with adequate ventilation. Keep away from heat, sparks 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:** Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.

**Eye Contact:** Contact may be irritating to eyes. May cause redness and tearing.

**Ingestion:** This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonia, 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   

## Regulatory

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 Section 313 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.

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):** This product does not contain chemicals regulated under California Proposition 65.

**VOC Regulations:** This product complies with the consumer product VOC limits of LADCO, the US EPA and states adopting the OTC VOC rules.



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