WD-40® Technical Data Sheet

Physical Characteristics

Appearance: Aerosol—Aerosolized Liquid Bulk—Liquid	**Boiling Point :** 183° - 187 ° C (361° F - 369 ° F)
Color: Light (or pale) amber	**Vapor Density:** >1
Odor: Characteristic	**Flash Point:** 49° C (122° F)(Tag Open Cup)
Freeze Point/Pour Point: -63° C (-81.4° F)(ASTM D-97)	**Volatile by volume:** 70% - 75%
Kinematic Viscosity @ 100° F: 2.79 - 2.96cSt	**Lower flammability limit:** 0.6%
Specific Gravity @ 60° F: 0.8-0.82	**Upper flammability limit:** 8.0%
	Vapor Pressure: Aerosol: 95-115 psi @ 21° C (70°F) Bulk: 1 psi @ 38°C (100°F)(ASTM D323)



Packages

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

WD-40 and the Environment

- WD-40 Multi-Use Product does not contain chloroflurocarbons (CFCs), (HCFCs)
- WD-40 Multi-Use Product does not contain Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (Cr6), Polybrominated biphenyls (PBB), or Polybrominated di-phenylether 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 for all 50 states.
- WD-40 Multi-Use Product is inherently biodegradable according to OECD Method 301

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.

Properties

Operating Temperature: -10° F to 200° F	**Kb Value:** 24.8
Dielectric Strength: 44,400 - 47,800 Volts	**Film Thickness:** 17 um (US)
Solubility in Water: Insoluble	**Coverage:** 600-1000 ft^2 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.

Performance - WD-40® Multi-Use Product

Test Method	Property	Results
ASTM 4172	Lubricates and Protects	0.60-0.70 mm at RT
ASTM 3233	Extreme Pressure Lubrication	1300-2000 lbs
ASTM B-117	Corrosion Protection (Salt Spray)	0-20% in 72 hours

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 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

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 CARB, LADCO, the US EPA and states adopting the OTC VOC rules.