



WD-40

MATERIAL SAFETY DATA SHEET

HMIS Rating
 Health: 2
 Flammability: 2
 Reactivity: 1

I. PRODUCT IDENTIFICATION

Manufacturer: WD-40 Company	Telephone: 1-800-424-9300 (Chemtrec)
Address: 1061 Cudahy Place (92110)	Emergency only: (619) 275-1400
P.O. Box 80607	Information: (619) 275-1400
San Diego, California	Product Class: Aerosol Cleaning Aid
92138-0607	Trade Name: Spot Shot Carpet Stain Remover (14 oz.)
	Formula: Mixture

II. HAZARDOUS INGREDIENTS

Chemical Name	CAS Number	Wt. Percent Is Less Than	ACGIH TLV	Exposure Limits (8 hr. TWA)	
				OSHA PEL	ACGIH OSHA STEL
2-Butoxyethanol	111-76-2	25.0%	25 ppm	50 ppm	NE
Liquefied Petroleum Gas (Propellant)	68476-85-7	10.0%	1000 ppm	1000 ppm	NE

(see section XV. for abbreviated legend)

III. PHYSICAL DATA

Vapor Pressure	55 psig @ 70 F (propellant)	Vapor Density: (air= 1): >1
Specific Gravity:	(Water=1): ND	Evaporation Rate: (Butyl Acetate=1): Less than 1
Boiling Point:	-44 – 343 F (propellant)	% Volatiles by Volume: ND
Solubility in water (20 C):	Miscible	VOCS, lbs/gal: ND
Appearance and Odor:	Aerosol spray. Pleasant odor.	

(see section XV. for abbreviated legend)

IV. FIRE AND EXPLOSION

Flammability Properties:	Not flammable per flame projection test.
Extinguishing Media:	Carbon dioxide, dry chemical, water fog
Special Fire Fighting Instructions:	Keep fire-exposed containers cool with water spray. In the event of a fire, wear full protective clothing and a MSHA/NIOSH approved self-contained breathing apparatus with full face piece and operated in the pressure demand or other positive pressure mode.
Unusual Fire and Explosion Hazards:	Exposure of containers to extreme heat and flames can cause them to rupture often with violent force and subsequent fire.

V. HEALTH HAZARD

AEROSOL SPRAY. PLEASANT ODOR. CAUTION! CONTENTS UNDER PRESSURE. AVOID HEAT AND FLAMES. MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. HARMFUL IF INTENTIONALLY INHALED. HARMFUL IF ABSORBED THROUGH SKIN. MAY AFFECT LIVER, KIDNEYS, BLOOD, LYMPHATIC SYSTEM OR CENTRAL NERVOUS SYSTEM.

First Aid Emergency Procedures:

Call Physician Immediately!

Eye contact: Immediately flush eyes with plenty of water for 15 minutes and get medical attention.
Ingestion (Swallowed): Do not induce vomiting; drink two glasses of water and get medical attention.
Inhalation (Breathing): Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and get medical attention.
Skin Contact: Wash skin with soap and water and remove contaminated clothing.

Potential Health Effects:

Primary Routes of Entry: Inhalation, skin and eye contact.
Inhalation: Excessive inhalation can cause headache, drowsiness, nausea and lack of coordination. Can cause irritation of respiratory tract.
Skin Contact: Can cause skin irritation. Toxic amounts may be absorbed through the skin with symptoms similar to those under inhalation and ingestion.
Eye Contact: Liquid sprayed into eyes causes corneal irritation and pain.
Ingestion: Symptoms are similar to those of inhalation including pain, diarrhea and vomiting. May cause damage to the liver and kidneys.
Chronic Effects: 2-butoxyethanol has caused liver and kidney damage.

Medical Conditions Aggravated by Exposure:

Pre-existing respiratory, skin, eye, liver, kidney and lymphatic disorders.

VI. REACTIVITY DATA

Stability:	Stable <u>X</u> This product is stable under normal storage conditions.
Conditions to avoid:	Extreme heat, sources of ignition, physical damage to can.
Incompatibilities:	Avoid strong oxidizers, strong bases, acids and chlorinated solvents.
Hazardous decomposition products:	Burning can produce carbon monoxide and/or carbon dioxide and trace amounts phosgene gas.
Hazardous polymerization:	Will not occur <u>X</u>

VII. SPILL OR LEAK PROCEDURES

Ventilate area of spill and remove all sources of ignition. Observe all hazards mentioned in Section V. Wear personal protective equipment specified in Section VIII.

Spill Response Procedures: Wipe, scrape or soak up contents in an inert material. Pick up spill for recovery or disposal and place in a closed container.

VIII. SPECIAL HANDLING INFORMATION

Engineering Controls:	A system of local and/or general exhaust is recommended to control airborne levels below exposure limits specified in Section II.
Respiratory Protection:	Use in a well-ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.
Eye Protection:	Safety glasses with side shields or chemical goggles are recommended.
Skin Protection::	Wear appropriate protective clothing and chemical-resistant gloves to prevent skin contact. Wash thoroughly after handling.
Work/Hygienic Practices:	Eye wash facilities should be available. Wash hands before eating and smoking.

IX. SPECIAL PRECAUTIONS

Handling:	Use with adequate ventilation. Do not smoke or use around open flames or sources of extreme heat. Intentional misuse by deliberately concentrating vapors and inhaling can be harmful or fatal. Avoid getting in eyes or on skin and clothing. Do not breathe vapors. Wash thoroughly after handling, and wash contaminated clothing before reuse.
Storage:	Store in a cool, dry ventilated area. Protect from physical damage. Do not store in direct sunlight, near open flames or above temperatures greater than 120 F. do not place can in hot water or near radiators, stoves or other sources of heat.

X. TOXICOLOGICAL INFORMATION

The following data is for the component: 2-butoxyethanol
Inhalation LC50 (ppm) 4-HR: 450 (RAT) Acute oral LD50 (mg/kg): 1,480 (RAT)
Acute Dermal LD50 (kg/kg): 490 (RBT) Irritation, Skin, open, 500 mg: MILD (RBT)
Irritation, Eye, 18 mg: SEVERE (RBT)

XI. 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.

XII. HMIS RATING

HMIS Rating - Health: 2 (moderate hazard) Flammability: 2 (moderate hazard) Reactivity: 1 (low hazard)

XIII. TRANSPORTATION

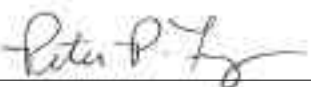
DOT Classification: Consumer Commodity ORM-D

XIV. REGULATORY INFORMATION

SARA 302: None found SARA 311/312 Hazard Categories: Immediate (acute), Chronic (delayed), Flammability
SARA 313: Toxic Chemicals: 2-butoxyethanol 17% by wt.
OSHA: Hazardous under criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)
California Proposition 65: No components listed.

XV. OTHER INFORMATION

This MSDS complies with OSHA guidelines set by 29 CFR 1910.1200. 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 or 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.

SIGNATURE: Peter Fougner  TITLE: Director of Global Quality Assurance
REVISION DATE: December, 2004 SUPERSEDES: April, 2004

We believe the statements, technical information and recommendations contained herein are reliable. However, the data is provided without warranty, expressed or implied. It is the user's responsibility both to determine safe conditions for use of this product and assume loss, damage or expense, direct or consequential, arising from its use. Before using product, read label.

Legend: NA: Not applicable NE: Not established ND: No determined