



WD-40



Material Safety Data Sheet (MSDS)

Section 1 - Chemical Product and Company Identification

<p>MANUFACTURER/SUPPLIER: US Office: Spot Shot Products A Division of WD-40 Company 1061 Cudahy Place San Diego, CA 92110 Information Phone #: (619) 275-1400 Emergency Phone # 24 hr: Chemtrec: (800) 424-9300 – Designated for use only in the event of chemical emergencies involving a spill, leak, fire exposure or accident involving chemicals.</p>	<p>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.</p>
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PRODUCT NAME: SPOT SHOT INSTANT CARPET STAIN REMOVER AEROSOL

FORMULA: Mixture

GENERAL CLASS: Aerosol Cleaning Aid

MSDS DATE OF PREPARATION: November 23, 2010

HMIS Rating

Health: 2

Flammability: 2

Reactivity: 1

Section 2 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent
2-Butoxyethanol (Ethylene glycol monobutyl ether)	111-76-2	Less than 5%
2-(2-Butoxyethoxy)ethanol (Diethylene glycol monobutyl ether)	112-34-5	Less than 10%
Liquefied Petroleum Gas	68476-85-7	Less than 10%

See Section 8 for Exposure Limits

Section 3 – Hazards Identification

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

Avoid breathing concentrated vapors. Use with adequate ventilation. Avoid getting on skin, in eyes, and on clothing. Wash thoroughly after handling.

Potential Health Effects:

Primary Routes of Entry: Inhalation, skin and eye contact.

Acute Effects:

Inhalation: Excessive inhalation may cause respiratory tract irritation, headache, drowsiness, nausea, lack of coordination and other symptoms of central nervous system effects. Overexposure to the propellant may

cause depressed respiration and heart rate, heart rhythm irregularities, shortness of breath, unconsciousness or death..

Skin Contact: Prolonged contact may cause mild skin irritation, defatting and dermatitis. Prolonged and widespread contact may result in absorption of harmful amounts of 2-butoxyethanol with symptoms similar to those under inhalation and ingestion.

Eye Contact: Liquid sprayed into eyes may cause irritation and pain.

Ingestion: Swallowing may cause gastrointestinal irritation with abdominal pain, diarrhea and vomiting and nervous system effects with symptoms of headache, dizziness and nausea. May cause damage to the liver and kidneys.

Chronic Effects: Prolonged overexposure to 2-butoxyethanol may cause lymphatic system, blood, liver and kidney damage.

Medical Conditions Aggravated by Exposure: Pre-existing respiratory, skin, eye, liver, kidney and lymphatic disorders.

Section 4 – First Aid Measures

IF INHALED: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

IF SWALLOWED: Do not induce vomiting. Call a physician or poison control center. Give one eight-ounce glass of water to drink if the patient is conscious and responsive. Never give anything by mouth to an unconscious person.

IF ON SKIN: Wash skin with soap and water. Remove contaminated clothing and wash before reuse. Get medical attention if irritation persists or symptoms of exposure develop.

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

Section 5 – Fire Fighting Measures

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 NIOSH approved self-contained breathing apparatus with full face piece and operated in positive pressure mode. Use shielding to protect from bursting cans.

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.

Section 6 – Accidental Release Measures

Ventilate area of spill and remove all sources of ignition. Observe all hazards mentioned in Section 3. Wear personal protective equipment specified in Section 8.

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

Section 7 – Handling and Storage

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. Avoid breathing 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.

Section 8 – Exposure Controls/Personal Protection

Occupational Exposure Limits

2-Butoxyethanol (Ethylene glycol monobutyl ether)	20 ppm TWA ACGIH-TLV 50 ppm TWA OSHA PEL skin
2-(2-Butoxyethoxy)ethanol (Diethylene glycol monobutyl ether)	35 ppm TWA manufacturer recommended.
Liquefied Petroleum Gas	1000 ppm TWA ACGIH TLV (as aliphatic Petroleum gas) 1000 ppm TWA OSHA PEL (as propane)

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

Engineering Controls: Good general ventilation is adequate for normal use. When using large amounts, open windows or use a fan to ventilate the area.

Personal Protection:

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

Skin Protection: Avoid prolonged or repeated skin contact. Wash hands with soap and water after use.

Respiratory Protection: None required. Use in a well-ventilated area.

For Bulk Processing or Workplace Use the Following Controls are Recommended

Engineering Controls: A system of local and/or general exhaust is recommended to control airborne levels below the occupational exposure limits.

Personal Protection:

Eye Protection: Safety glasses with side shields or chemical goggles are recommended.

Skin Protection: Wear appropriate protective clothing and chemical-resistant gloves if needed to avoid prolonged skin contact. Wash thoroughly after handling.

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.

Work/Hygiene Practices: Eye wash facilities should be available. Wash hands before eating and smoking.

Section 9 – Physical and Chemical Properties

Vapor Pressure:	55 psig @ 70 F (propellant)	Vapor Density (air = 1):	>1
Specific Gravity (Water = 1):	0.964	Evaporation Rate (Butyl Acetate = 1):	Less than 1
Boiling Range: -	43 F – 343F (propellant)	% Volatiles by Volume:	>90%
Solubility in water (20 C):	miscible	VOC's lbs/gal:	9.45%
Appearance and Odor:	Aerosol spray. Characteristic odor.	Coefficient of Water/Oil Distribution:	N/D

Section 10 – Stability and Reactivity

Stability: Stable under normal storage conditions.

Hazardous Polymerization: Will not occur

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 of phosgene gas.

Section 11 – Toxicological Information

2-Butoxyethanol: Inhalation LC50 (ppm) 4-hr: 450 (rat) Acute oral LD50 (mg/kg): 1,480 (rat) Acute Dermal LD50 (kg/kg): 490 (rabbit), Irritation, Skin, open, 500 mg: mild (rabbit), Irritation, Eye, 18 mg: severe (rabbit)

2-(2-Butoxyethoxy)ethanol: Acute oral LD50 (mg/kg): 5,080 (rat) Acute Dermal LD50 (kg/kg): 2,764 (rabbit) Irritation, Skin, mild (rabbit), Irritation, Eye, moderate (rabbit)

Liquefied Petroleum Gas: No data is available

Section 12 – Ecological Information

This product is not expected to be harmful for the environment.

Section 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.

Section 14 – Transportation Information

DOT Classification: Consumer Commodity ORM-D
TDG Classification: Limited Quantity (Consumer Commodity)

Section 15 – Regulatory Information

SARA 302: None found
SARA 311/312 Hazard Categories: Immediate (acute), Chronic (delayed), Flammability
SARA 313: Toxic Chemicals: 2-butoxyethanol <5% by wt. (glycol ether compound)
2-(2-butoxyethoxy) ethanol <10% by wt. (glycol ether compound)
OSHA: Hazardous under criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200)
California Proposition 65: No components listed.

Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List.
Canadian WHMIS Classification: Class D, Division 2, Subdivision B (Toxic material causing other chronic 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.

Section 16 – Other Information

**HMIS Hazard Rating: Health – 2 (moderate hazard), Fire Hazard – 2 (moderate hazard),
Reactivity – 1 (low hazard)**

Prepared By: Industrial Health & Safety Consultants, Inc. 1-203-929-3473

Revision Date: 11/23/2010

Supersedes: 12/10/2007

Revision Summary: Complete review. Added recommended exposure limit (Section 8)

This MSDS complies with OSHA guidelines set by 29 CFR 1910.1200 and the Canadian WHMIS regulations. 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 of 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.

N/D = Not Determined N/E = Not Established N/A = Not Applicable