

**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: Aerosol Cleaning Aid
San Diego, California	Product Class: Spot Shot Large Area Multi-Purpose Cleaner 20 oz
92138-0607	Trade Name:

**II. HAZARDOUS INGREDIENTS**

Chemical Name	CAS Number	Wt. Percent Is Less Than	TLV-TWA	Occupational Exposure Limits			SKIN
				TLV-STEL	PEL-TWA	PEL-CEILING	
2-Butoxyethanol	111-76-2	10.0%	25 ppm	NE	25 ppm	NE	No
Liquefied Petroleum Gas	68476-85-7	5.0%	1000 ppm	NE	NE	NE	No

(see section XI. for abbreviated legend)

**III. PHYSICAL DATA**

Boiling Point	-44 – 341 F	Vapor Density:	Is heavier than air
Odor:	Mild Glycol Ether	Specific Gravity:	.9713
Appearance:	Aerosol Foam	Evaporation Rate:	Is slower than Ether
Solubility in H <sub>2</sub> O:	Partial	VOCS, lbs/gal:	NE
VOCS, grams/ltr:	NE		

(see section XI. for abbreviated legend)

**IV. FIRE AND EXPLOSION**

Flash Point: ***F	Lower Explosive Limit: 1.1%	Upper Explosive Limit: 10.6%
Extinguishing Media:	CO <sub>2</sub> Dry Chemical	Alcohol Foam
Unusual Fire and Explosion Hazards:	Vapors of this solvent may develop a flammable atmosphere in confined areas.	
Special Firefighting Procedures:	Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. Wear a full face positive pressure self-contained breathing apparatus when fighting fires.	

**V. HEALTH HAZARD****Effects of Overexposure:**

**Inhalation:** Shortness of breath, dizziness, and lightheadedness.

**Eye contact:** Can cause irritation.

**Skin:** Slight skin irritation. Can cause dermatitis

**Ingestion:** May cause chemical pneumonia if aspirated into lung.

**Medical Conditions Prone to Aggravation by Exposure:**

None recognized

**First Aid Emergency Procedures:**

Call Physician Immediately!

**Eye contact:** Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention.

**Ingestion (Swallowed):** Do not induce vomiting. Immediately drink two glasses of water. Never give anything by mouth to an unconscious person. Call physician immediately.

**Inhalation (Breathing):** If affected, remove individual to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet, get medical attention.

**Skin Contact:** Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

**Effects of Chronic Overexposure:**

Ethylene Glycol Monobutyl Ether (2-Butoxyethanol) causes harm to the fetus in lab animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. In humans, uncertain. Overexposure to this material (or its components) has apparently been found to cause the following in lab animals: liver abnormalities, kidney damage, blood abnormalities, spleen and testis damage. Prolonged exposure above the OSHA permissible exposure limits may result in kidney and liver damage.

**Primary Route(s) of entry:** Skin contact, Inhalation, Ingestion, Eye contact

## VI. REACTIVITY DATA

Stability: Stable X This product is stable under normal storage conditions.  
Conditions to avoid: Open flames or electrical arcs.  
Incompatibility: Avoid contact with strong oxidizing agents, strong alkalies, and strong mineral acids.  
Avoid contact with chlorinated solvents.  
Hazardous decomposition products: Burning can produce carbon monoxide and/or carbon dioxide and trace phosgene gas.  
Hazardous polymerization: Will not occur X Will not occur under normal storage conditions.

## VII. SPILL OR LEAK PROCEDURES

**Spill Response Procedures:** Ventilate area. Remove all sources of ignition. Clean up with inert materials and dispose of in accordance with all Local, State and Federal regulations.  
**Waste Disposal Method:** Aerosol container: Do not puncture or incinerate. Empty containers may be disposed of through normal channels. Full or partially filled containers are considered hazardous waste.

## VIII. SPECIAL HANDLING INFORMATION

Ventilation: Sufficient ventilation, in volume and pattern, should be provided to keep air contamination below current applicable OSHA permissible exposure limit or ACGHI'S TLV limit.  
Respiratory Protection: NIOSH/OSHA approved respirator types suitable for materials in Section 2 recommended.  
Approved chemical/mechanical filters recommended when ventilation is restricted.  
Approved airline type respirators or hoods recommended in confined area.  
Protective Gloves: Recommended for prolonged or repeated contact. Wear resistant gloves such as polyvinyl alcohol, polyethylene.  
Eye Protection: Chemical goggles with side shields or face shield recommended.  
Other Protective Equipment: Protective clothing and equipment: See 29 CFR 1910.133 and 132.  
Hygienic Practices: Wash hands before eating or smoking.

## IX. SPECIAL PRECAUTIONS

Handling & Storage: Do not store in direct sunlight, near open flames, or at temperatures exceeding 120°F. Do not smoke while spraying. Intentional misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.  
Other precautions: No information.

## X. HMIS RATING

HMIS Rating - Health: 2 Flammability: 2 Reactivity: 1

## XI. TRANSPORTATION AND STORAGE

SARA Section 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>WT/WT % is Less Than</u>
2-Butoxyethanol	111-76-2	10.0%

Transportation and Storage: DOT Classification: Consumer commodity ORM-D. NFPA Codes: No information

## XII. OTHER REGULATORY INFORMATION

Disclaimer: 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 sure 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. This MSDS complies with guidelines set by 29 CFR 1910.1200.  
Proposition 65 Statement: No information  
The information contained on the MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State and local laws and regulations.

SIGNATURE: Peter Fougner  TITLE: Director of Global Quality Assurance

REVISION DATE: December, 2004 SUPERSEDES: March, 2002

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