



WD-40 Company

Material Safety Data Sheet



1 - Chemical Product and Company Identification

Manufacturer: WD-40 Company		Trade Name: 3-IN-ONE Professional Heavy-Duty Cleaner Degreaser
Address:	1061 Cudahy Place (92110) P.O. Box 80607 San Diego, California, USA 92138 -0607	Chemical Name: Organic Mixture
Telephone:		Product Use: Cleaner, Degreaser
Emergency only:	1-888-324-7596	MSDS Date Of Preparation: 10/15/08
(PROSAR)		
Information:	1-888-324-7596	

2 - Hazards Identification

Emergency Overview:

CAUTION! Contents under pressure. May be irritating to eyes, respiratory tract and skin. Repeated skin contact may cause allergic skin reaction. Prolonged overexposure may cause liver, blood, lymphatic system or central nervous system effects. Prolonged or repeated skin exposure may cause drying, defatting and dermatitis. Use with adequate ventilation. Keep away from heat, sparks and all other sources of ignition. Avoid eye contact and inhalation.

Symptoms of Overexposure:

Inhalation: Inhalation may cause nose, throat, and respiratory tract irritation, coughing, headache, and anesthesia. Prolonged exposure to the propellant may cause rapid breathing, headache and dizziness.

Skin Contact: May cause skin irritation. Prolonged contact may cause defatting, dermatitis, and drying of the skin. May cause sensitization by skin contact.

Eye Contact: May cause eye irritation with redness, tearing and blurred vision.

Ingestion: May be harmful if swallowed. Ingestion may cause vomiting and headache. May cause damage to liver and kidneys.

Chronic Effects: May cause blood disorders, liver, lymphatic system and ventral nervous system effects based on animal data.

Medical Conditions Aggravated by Exposure: Preexisting skin conditions or allergies may be aggravated by exposure.

Suspected Cancer Agent:

Yes No ☒ X

3 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent
2-Butoxyethanol	111-76-2	5-7%
Limonene	5989-27-5	5-7%
Propellant (propane, n-butane)	74-98-6/106-97-8	8-10%
Non-hazardous Ingredients	Mixture	Balance

See Section 8 for Exposure Limits

4 - First Aid Measures

Ingestion (Swallowed): Do not induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.

Eye Contact: Flush thoroughly with water for 15 minutes. Get immediate medical attention.

Skin Contact: Wash thoroughly with soap and water. If irritation develops and persists, get medical attention.

Inhalation (Breathing): If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

5 – Fire Fighting Measures

Extinguishing Media: Use water fog, dry chemical, carbon dioxide or foam.

Special Fire Fighting Procedures: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect from bursting cans.

Unusual Fire and Explosion Hazards: Contents under pressure. Keep away from ignition source and open fire. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors are heavier than air and may travel along the ground to remote sources and flash back.

6 – Accidental Release Measures

Immediately remove all sources of ignition. Remove personnel from general area. Wear appropriate protective clothing (see Section 8). Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

7 – Handling and Storage

Handling: Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children.

Storage: Store in a cool, well-ventilated area, away from incompatible materials and heat, sparks or open flame. Do not store in direct sunlight or above 120°F. U.F.C (NFPA 30B) Level 2 Aerosol.

8 – Exposure Controls/Personal Protection

Chemical	Occupational Exposure Limits
2-Butoxyethanol	20 ppm TWA ACGIH TLV 50 ppm Skin TWA OSHA PEL
Limonene	None Established
Propane	1000 ppm TWA OSHA PEL 1000 ppm TWA ACGIH TLV (aliphatic hydrocarbon gas)
n-Butane	1000 ppm TWA ACGIH TLV (aliphatic hydrocarbon gas)
Non-hazardous Ingredients	None Established

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

Engineering Controls: Use in a well-ventilated area.

Personal Protection:

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

Skin Protection: Avoid prolonged or repeated skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.

Respiratory Protection: None needed for normal use with adequate ventilation.

For Bulk Processing or Workplace Use the Following Controls are Recommended

Engineering Controls: Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

Personal Protection:

Eye Protection: Safety goggles recommended where eye contact is possible.

Skin Protection: Wear chemical resistant gloves.

Respiratory Protection: None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

Work/Hygiene Practices: Wash with soap and water after handling.

9 – Physical and Chemical Properties

Boiling Point:	Not Applicable	Specific Gravity:	0.976 @ 70°F
Solubility in Water:	Miscible	pH:	Not Established
Vapor Pressure:	60 +/- 5 PSI @ 70°F	Vapor Density:	Greater than 1
Percent Volatile:	21.0%	VOC:	20.3-20.6%
Coefficient of Water/Oil Distribution:	Not Determined	Appearance/Odor	Light amber liquid with a citrus odor.
Flash Point:	Not Determined	Flammable Limits: (Propellant)	LEL: 1.8% UEL: 9.5%

10 – Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Heat and open flame.

Incompatibilities: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

11 – Toxicological Information

2-Butoxyethanol: Oral rat LD50: 1746 mg/kg; Dermal rabbit LD50: 435 mg/kg

d-Limonene: Oral rat LD50: >5000 mg/kg; Dermal rat LD50: >5000 mg/kg

None of the components of this product is listed as a carcinogen or suspected carcinogen or is considered a reproductive hazard.

12 – Ecological Information

No data is currently available.

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.

14 – Transportation Information

DOT Surface Shipping Description: Consumer Commodity, ORM-D

IMDG Shipping Description: UN1950, Aerosols, 2, LTD QTY

15 – Regulatory Information

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, Chronic Health

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: 2-Butoxyethanol (glycol ether)

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

Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List or exempt from notification

Canadian WHMIS Classification: Class D-2-B (A toxic material causing other harmful 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.

16 – Other Information:

HMIS Hazard Rating:

Health – 1 (slight hazard), Fire Hazard – 3 (serious hazard), Reactivity – 0 (minimal hazard)

Revision Date: October 2008

Supersedes: August, 2007

SIGNATURE:  TITLE: Director of Global Quality Assurance

REVISION DATE: October 2008

SUPERSEDES: August, 2007