



MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

<p>MANUFACTURER/SUPPLIER: US Office: WD-40 Company 1061 Cudahy Place San Diego, CA 92110</p> <p>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</p> <p>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: WD-40 Specialist Machine & Engine Degreaser Foaming Spray

PRODUCT USE: Cleaner, Degreaser

MSDS DATE OF PREPARATION: October 2, 2013

SECTION 2 HAZARDS IDENTIFICATION

WARNING! Contents under pressure. May be irritating to eyes. Use with adequate ventilation. Keep away from heat, flames and all other sources of ignition. Avoid eye contact and inhalation.

POTENTIAL HEALTH EFFECTS:

PRIMARY ROUTES OF ENTRY: Inhalation, skin and eye contact.

ACUTE EFFECTS:

INGESTION: Swallowing may cause gastrointestinal irritation. Not expected to be acutely toxic.

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

SKIN: Prolonged and/or repeated contact may cause defatting, dermatitis, and drying of the skin.

INHALATION: Mist or vapor can irritate the throat and lungs. Excessive inhalation may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.

CHRONIC EFFECTS: 2-(2-butoxyethoxy) ethanol has caused effects on the liver and kidneys in studies with laboratory animals.

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Percent
Non-Hazardous Ingredients	Mixture	Balance
2-(2-Butoxyethoxy)ethanol (Glycol Ether DB)	112-34-5	5-10%
Isopropanol	67-63-0	1-5%
Liquefied Petroleum Gas (propane, n-butane) or Isobutane propellant	68476-86-8 75-28-5	1-5%
Surfactants	Proprietary	1-5%

SECTION 4 FIRST AID MEASURES

For Medical Emergencies Call 1-888-324-7596 (24 hours/day)

INGESTION: Do not induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately. Rinse mouth with water and 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.

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

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

INHALATION: Remove to fresh air. Get medical attention if irritation or symptoms persist.

SECTION 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/EXPLOSION HAZARDS: Contents under pressure. Keep away from heat, hot surfaces and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Mixture inside the aerosol may release carbon monoxide and carbon dioxide.

SECTION 6 ACCIDENTAL RELEASE MEASURES

SPILL RESPONSE: Remove personnel from general area. Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area. Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. 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.

SECTION 7 HANDLING AND STORAGE

HANDLING: Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use with adequate ventilation. Keep away from heat, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Do not puncture, crush or incinerate containers, even when empty. 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 1 Aerosol.

SECTION 8 EXPOSURE CONTROLE/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

Non-Hazardous Ingredients	None Established
2-(2-Butoxyethoxy)ethanol	10 ppm TWA ACGIH TLV (Measured as inhalable fraction and vapor) 35 ppm TWA manufacturer recommended
Isopropanol	200 ppm TWA, 400 ppm STEL ACGIH TLV Ontario: 200 ppm TWA, 400 ppm STEL Québec: 400 ppm TWA, 500 ppm STEL
Propane	Ontario: 1000 ppm TWA (as aliphatic hydrocarbon gases) Québec: 1000 ppm TWA
n-Butane	1000 ppm STEL ACGIH TLV Ontario: 1000 ppm TWA (as aliphatic hydrocarbon gases) Québec: 800 ppm TWA

Isobutane	1000 ppm STEL ACGIH TLV (As Butane, all isomers) Ontario: 1000 ppm TWA (as aliphatic hydrocarbon gases)
Surfactants	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 applicable regulations and good Industrial Hygiene practice.

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

SECTION 9 PHYSICAL DATA

APPEARANCE AND ODOR: Clear colorless liquid with a citrus odor.

Boiling Point:	212°F (100° C)(concentrate)	Specific Gravity:	1.0 kg/l (concentrate) 0.955 kg/L (with propellant)
Solubility in Water:	Complete	pH:	10.5-11.5
Vapor Pressure:	Not Determined	Vapor Density:	Not Determined
Percent Volatile:	>95%	VOC:	6.5% (33.4 g/L)
Coefficient of Water/Oil Distribution:	Not Determined	Kinematic Viscosity:	Not determined
Flash Point:	<0°F (<-17.8°C) (propellant) 59°F (15° C)(concentrate with propellant ASTM D3828/US 16CFR 1500.45) >212°F (>100°C) (concentrate only)	Flammable Limits:	LEL: 1.8% UEL: 9.5% (propellant)
Pour Point:	Not Determined		

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY: Strong oxidizing agents. Avoid extreme heat, sources of ignition, and physical damage to aerosol can. Do not puncture or incinerate containers.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may yield carbon monoxide and carbon dioxide.

SECTION 11 TOXICOLOGICAL INFORMATION

Surfactant: Oral rat LD50: 412-2394 mg/kg, Dermal rabbit LD50: 1127-2395 mg/kg, Inhalation rat LC50: 1.06 mg/L/4 hr

Isopropanol: Inhalation rat LC50: 16,000 ppm/8 hr, Oral rat LD50: 5045 mg/kg, Dermal rabbit LD50: 12,800 mg/kg
2-(2-Butoxyethoxy)ethanol: Oral rat LD50: 5660 mg/kg; Dermal rabbit LD50: 4000 mg/kg
Liquefied Petroleum Gas: No toxicity data is available
Isobutane: Inhalation rat LC50: 570000 ppm/15 min.

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

SECTION 12 ECOLOGICAL INFORMATION

No data is currently available.

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: 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 TRANSPORT INFORMATION

DOT Surface Shipping Description: Consumer Commodity, ORM-D
After 1/1/2014 UN1950, Aerosols, 2.1 Ltd. Qty (Note: Shipping Papers are not required for Limited Quantities unless transported by air or vessel – each package must be marked with the Limited Quantity Mark)

Canadian TDG Classification: Limited Quantity

IMDG Code Hazard Classification: UN1950, Aerosols, 2.1, LTD QTY

SECTION 15 REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements, however, 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, 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: 2-(2-Butoxyethoxy)ethanol 5-10% (glycol ether compound)

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 REGULATIONS:

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

Canadian WHMIS Classification: Class A (Compressed Gas), 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.

SECTION 16 OTHER INFORMATION

HMIS Hazard Rating: Health – 1 (slight hazard), Fire Hazard – 2 (moderate hazard), Physical Hazard – 0 (minimal hazard)

Revision Date: 10/2/13

Supersedes: New MSDS

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

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

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