

	50 ppm TWA (Skin) OSHA PEL
Liquefied Petroleum Gas (propane, n-butane)	1000 ppm Ceiling ACGIH TLV (butane) 1000 ppm TWA OSHA PEL (propane)

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 away from face.

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

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 appropriate protective clothing and chemical-resistant gloves to avoid skin contact. Wash thoroughly after handling.

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

Appearance:	Aerosol foam	Flammable Limits: (Solvent Portion)	LEL: 1.1% UEL: 10.6% (Propellant)
Odor:	Mild glycol odor	Vapor Pressure:	Not available
Odor Threshold:	Not established	Vapor Density:	Greater than 1
pH:	Not applicable	Relative Density:	0.9713
Melting/Freezing Point	Not established	Solubilities:	Soluble water
Boiling Point/Range:	-44 – 341°F (Propellant)	Partition Coefficient; n-octanol/water:	Not established
Flash Point:	Not determined	Autoignition Temperature:	Not established
Evaporation Rate:	Not available	Decomposition Temperature:	Not established
Flammability (solid, gas)	Not flammable per Flame Extension Test	Viscosity:	Not established
VOC:	8.90%	Pour Point:	Not established

10 – Stability and Reactivity

Reactivity: Not reactive under normal conditions

Chemical Stability: Stable

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate containers.

Incompatible Materials: Avoid strong oxidizers, strong bases, acids and chlorinated solvents.

Hazardous Decomposition Products: Burning can produce carbon monoxide and/or carbon dioxide.

11 – Toxicological Information

Symptoms of Overexposure:

Inhalation: Excessive inhalation can cause headache, drowsiness, nausea and lack of coordination. Can cause irritation of respiratory tract. Overexposure to propellant may cause respiratory depression, heart rate rhythm irregularities, headache, shortness of breath, and unconsciousness.

Skin Contact: Can cause mild skin irritation. Harmful amounts may be absorbed through the skin with symptoms similar to those under inhalation and ingestion.

Eye Contact: Liquid sprayed into eyes may cause irritation.

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 lymphatic system, blood, liver and kidney damage.

Carcinogen Status: None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.

Reproductive Toxicity: None of the components is considered a reproductive hazard.

Numerical Measures of Toxicity: Acute Toxicity Estimates: Oral >5000 mg/kg; Dermal >2000 mg/kg

The following information is available for the individual components:

2-(2-Butoxyethoxy) ethanol: Acute oral rat LD50: 4,500 mg/kg; Acute Dermal rabbit LD50: 4,120 mg/kg;

2-Butoxyethanol: Inhalation Rat LC50 4-HR: 450 ppm; Acute oral rat LD50: 1,480 mg/kg; Acute Dermal rabbit LD50: 490 mg/kg; Irritation, Skin, rabbit, open, 500 mg: MILD; Irritation, Eye, rabbit, 18 mg: Severe

Liquefied Petroleum Gas: No toxicity data is available

12 – Ecological Information

Ecotoxicity:

2-(2-Butoxyethoxy) ethanol: LC50 fish (*Iepomis marchochirus*) 1300 mg/L/96 hr; EC50 daphnia magna 3200 mg/L/24 hr

2-Butoxyethanol: 96 hr LC50 *Oncorhynchus mykiss* 1474 mg/L; 48 hr EC50 daphnia magna 1550 mg/L; 72 hr EC50 *Pseudokirchnerella subcapitata* 911 mg/L

Persistence and Degradability: Solvents are readily biodegradable.

Bioaccumulative Potential: Bioaccumulation is not expected based on an assessment of the ingredients.

Mobility in Soil: No data available

Other Adverse Effects: None known

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:

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)

IMDG Shipping Description: Un1950, Aerosols, 2.1, LTD QTY

ICAO Shipping Description: UN1950, Aerosols, flammable, 2.1 NOTE: WD-40 does not test aerosol cans to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our aerosol products be transported by air.

15 – Regulatory Information

U.S. Federal Regulations:

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements. 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, Sudden Release of Pressure

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements:

2-butoxyethanol: <5% by wt. (glycol ether compound)

2-(2-Butoxyethoxy) ethanol: <10% by wt. (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.

VOC Regulations: This product complies with the consumer product VOC limits of CARB, the US EPA and states adopting the OTC VOC rules.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): This product does not require a California Proposition 65 warning.

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 B-5 (Flammable Aerosol), Class D-2-B (Toxic material causing other toxic 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 – 2 (moderate hazard), Fire Hazard – 2 (moderate hazard), Physical Hazard – 0 (minimal hazard)

Revision Date: July 19, 2018

Supersedes: July 31, 2014

Revision Summary: Address and telephone number update in Section 1.

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Regulatory Affairs

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