



Material Safety Data Sheet

Section 1 ¾ Chemical Product And Company Identification

Manufacturer: LHB Industries Emergency Telephone Number (800) 424-9300 (Chemtrec)
8833 Fleischer Place Information Telephone Number (314) 423-4333
Berkeley, MO 63134 Date of Preparation October 28, 2003

Product ID: Office Plus, Aerosol Desk and Office Cleaner
LHB Part Number: 0184---000
National Stock Number: 7930-01-512-8969
CAGE Code: OFTT5

Section 2 ¾ Composition / Information On Ingredients

CAS No.	Ingredient	Wt%	ACGIH TLV <STEL>	OSHA PEL <STEL>	Vapor Pressure (mm Hg 20°C)
74-98-6	Propane	1	2500 ppm	1000 ppm	760
106-97-8	Butane	2	800 ppm	800 ppm	760
75-28-5	Isobutane	2	NE	NE	760
111-76-2	2-Butoxyethanol	<4	25 ppm	50 ppm	0.66

Section 3 ¾ Hazards Identification

ROUTES OF EXPOSURE: Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

EFFECTS OF OVEREXPOSURE: Irritation of eyes, skin and upper respiratory system. May cause damage to liver and kidneys.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing respiratory, skin, eye, liver, kidney and lymphatic disorders.

CANCER INFORMATION: For complete discussion of toxicology data refer to Section 11.

Section 4 ¾ First Aid Measures

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

SKIN CONTACT: Immediately flush skin with plenty of water while removing contaminated clothing and shoes. Call a physician if irritation persists. Wash clothing and shoes before reuse.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Consult medical personnel.

INGESTION: If swallowed, induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. Consult medical personnel.

Section 5 ¾ Fire Fighting Measures

FLASH POINT Nonflammable (CSMA) LEL N/A UEL N/A

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemicals and Foam

SPECIAL EXPOSURE HAZARDS: Do not expose to temperatures over 120°F. Keep away from heat, sparks and flame. Containers may explode when exposed to extreme heat. Applications to hot surfaces require special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL PROTECTIVE EQUIPMENT: Water may be used to keep fire-exposed containers cool. Fire fighters should wear full protective clothing, including self-contained breathing equipment.

NFPA RATING: HEALTH 2, FLAMMABILITY 2, REACTIVITY 0

HMIS CLASSIFICATION: HEALTH 2, FLAMMABILITY 2, REACTIVITY 0

Section 6 ¾ Accidental Release Measures

PERSONAL PRECAUTIONARY MEASURES: Avoid inhalation. Use good ventilation. Read entire label before using and follow all label directions.

ENVIRONMENTAL PRECAUTIONARY PROCEDURE FOR CLEANING/ABSORPTION: Wipe, scrape or soak up contents in an inert material. Pick up spill for recovery or disposal and place in a closed container. Dispose of in accordance with applicable Federal, State & Local regulations.

Section 7 ¾ Handling and Storage

HANDLING: Keep out of reach of children. Keep away from heat sparks, and open flame. Contents under pressure. Do not puncture, incinerate, or expose to temperatures above 120°F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally.

STORAGE: CATEGORY – NFPA 30B Level 1 Aerosol

Do not store where temperatures may exceed 120°F (48.9°C).

Section 8 ¾ Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Local Exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

RESPIRATORY PROTECTION: If personal exposure cannot be controlled to below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

GLOVES: None required for normal application.

SKIN PROTECTION: Impervious clothes to protect skin. Wash promptly when skin becomes contaminated.

EYES: Safety glasses with side shields or chemical goggles.

OTHER PERSONAL PROTECTION DATA: Use only with adequate ventilation. Avoid contact with skin and eyes. Wash hands after using.



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Section 9 ¾ Physical and Chemical Properties

PHYSICAL STATE:	Liquid
COLOR:	Colorless
ODOR:	Pleasant
SPECIFIC GRAVITY:	0.961
DENSITY:	8.01 lb/gal
VAPOR DENSITY (AIR=1)	>1
pH	10.0
EVAPORATION RATE:	Slower than ether
SOLUBILITY IN WATER:	Soluble

Section 10 ¾ Stability and Reactivity

CHEMICAL STABILITY:	Stable
HAZARDOUS POLYMERIZATION:	Will not occur
CONDITIONS TO AVOID:	Do not expose to heat or store at temperature above 120°F
MATERIAL TO AVOID:	Strong acids. Oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon Monoxide, and Carbon Dioxide

Section 11 ¾ Toxicological Information

TOXICOLOGY DATA (listed if available)

2-Butoxyethanol (111-76-2)		
Skin:	LD50	RATS 220 ppm
Ingestion:	LD50	RATS 470 ppm
Inhalation:	LC50	RATS 700 ppm in 7 HRS

Section 12 ¾ Ecological Information

ECOLOGICAL INFORMATION: No data available

Section 13 ¾ Disposal Considerations

DISPOSAL OF WASTE METHOD: Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section 14 ¾ Transport Information

U.S. DOT 49 CFR 172.101 Hazardous Material Table

DOT STATUS:	Not regulated
DOT SHIPPING NAME:	Consumer Commodity
UN/NA NUMBER:	UN1950
HAZARD CLASS:	ORM-D
DOT PACKING GROUP:	Not Determined

IATA: List of Dangerous Goods

PROPER SHIPPING NAME:	Aerosols, non-flammable
HAZARD CLASS OR DIVISION:	2.2
IDENTIFICATION NUMBER:	UN1950
PACKING GROUP:	-

Section 15 ¾ Regulatory Information

U.S. REGULATORY RULES	
SARA SECTION 302	None
SARA 313 CHEMICALS	2-Butoxyethanol
CALIFORNIA PROPOSITION 65	None
RCRA STATUS	This material is classified as a hazardous waste.
TSCA CERTIFICATION	All chemicals in this product are listed, or are exempt from listing on the TSCA Inventory.

VOC CONTENT	8.8% by wt.
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Section 16 ¾ Other Information

REVISION NUMBER: 02

ADDITIONAL INFORMATION: This MSDS meets the requirements of 29 CFR 1910.1200.

IMPORTANT NOTE: This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or any process. Final determination of suitability of any material is the sole responsibility of the user.

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*** END OF MSDS***