Safety Data Sheet
Office Plus, Aerosol Desk and Office Cleaner

SDS Revision Date: **08/23/2018**

LIGHTHOUSE for the BLIND ST. LOUIS, MO.

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Identity	Office Plus, Aerosol Desk and Office Cleaner
Alternate Names	LHB Part Number: 0184---000 National Stock Number: 7930-01-512-8969 CAGE Code: 0FTT5

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	See product label.
Application Method	See product label.

1.3. Details of the supplier of the safety data sheet

Company Name	LHB Industries 8833 Fleischer Place Berkeley, MO 63134
Emergency	
24 hour Emergency Telephone No.	(800) 633-8253 (PERS)
Customer Service: LHB Industries	(314) 423-4333

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Flam. Aerosol 1;H222	Extremely flammable aerosol.
Press. Gas;H280	Contains gas under pressure; may explode if heated.
Skin Irrit. 3;H316	Causes mild skin irritation. (Not adopted by US OSHA)

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

Danger

H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H316 Causes mild skin irritation.

[Prevention]:

No GHS prevention statements

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use.

[Response]:

P332+313 If skin irritation occurs: Get medical advice / attention.

[Storage]:

P410+412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F.

[Disposal]:

No GHS disposal statements

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Ethylene glycol monobutyl ether **CAS Number: 0000111-76-2**	**1.0 - 10**	**Acute Tox. 4;H332** **Acute Tox. 4;H312** **Acute Tox. 4;H302** **Eye Irrit. 2;H319** **Skin Irrit. 2;H315**	**[1][2]**
Propane, 2-methyl- **CAS Number: 0000075-28-5**	**1.0 - 10**	**Flam. Gas 1;H220** **Press. Gas;H280**	**[1][2]**
Butane **CAS Number: 0000106-97-8**	**1.0 - 10**	**Flam. Gas 1;H220** **Press. Gas;H280**	**[1][2]**
Propane **CAS Number: 0000074-98-6**	**1.0 - 10**	**Flam. Gas 1;H220** **Press. Gas;H280**	**[1][2]**

[1] Substance classified with a health or environmental hazard.
[2] Substance with a workplace exposure limit.
[3] PBT-substance or vPvB-substance.
*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General

Move victim to fresh air.
Call 911 or emergency medical service if deemed necessary.
Give artificial respiration if victim is not breathing.
Administer oxygen if breathing is difficult.

	Remove and isolate contaminated clothing and shoes. In case of contact with liquefied gas, thaw frosted parts with lukewarm water. Keep victim warm and quiet. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove and isolate contaminated clothing and shoes. Clothing frozen to the skin should be thawed before being removed. In case of contact with liquefied gas, thaw frosted parts with lukewarm water.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview	No specific symptom data available. See section 2 for further details.
Skin	Causes mild skin irritation.

5. Fire-fighting measures

5.1. Extinguishing media

Fire involving Tanks: Some of these materials, if spilled, may evaporate leaving a flammable residue.
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5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Oxides of Carbon

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

5.3. Advice for fire-fighters

Wear positive pressure self-contained breathing apparatus (SCBA).
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
Structural firefighters' protective clothing will only provide limited protection.

Some may burn but none ignite readily.
Containers may explode when heated.
Ruptured cylinders may rocket.

Vapors may cause dizziness or asphyxiation without warning.
Vapors from liquefied gas are initially heavier than air and spread along ground.
Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite.
Fire may produce irritating, corrosive and/or toxic gases.

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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not touch or walk through spilled material.
Stop leak if you can do it without risk.
Do not direct water at spill or source of leak.
Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.
If possible, turn leaking containers so that gas escapes rather than liquid.
Prevent entry into waterways, sewers, basements or confined areas.
Allow substance to evaporate.
Ventilate the area.

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Stay upwind.
Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).
Keep out of low areas.
Ventilate closed spaces before entering.

7. Handling and storage

7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Store this product below 120°F, in a cool, dry, well ventilated area away from heat, sparks, flame, oxidizers and out of direct sunlight.

Incompatible materials: Caustics. Acids. Oxidizers.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

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8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000074-98-6	Propane	OSHA	TWA 1000 ppm (1800 mg/m3)
		ACGIH	Ensure Minimal Oxygen Content (ACGIH appendix F)
		NIOSH	TWA 1000 ppm (1800 mg/m3)
		Supplier	No Established Limit
0000075-28-5	Propane, 2-methyl-	OSHA	No Established Limit
		ACGIH	STEL: 1000ppm
		NIOSH	TWA 800 ppm (1900 mg/m3)
		Supplier	No Established Limit
0000106-97-8	Butane	OSHA	No Established Limit
		ACGIH	TWA: 600 ppmSTEL: 750 ppm
		NIOSH	TWA 800 ppm (1900 mg/m3)
		Supplier	No Established Limit
0000111-76-2	Ethylene glycol monobutyl ether	OSHA	TWA 50 ppm (240 mg/m3) [skin]
		ACGIH	TWA: 20 ppmRevised 2003,
		NIOSH	TWA 5 ppm (24 mg/m3) [skin]
		Supplier	No Established Limit

8.2. Exposure controls

Respiratory If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash of liquids.

Skin Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact.

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

Appearance	Colorless Liquid
Odor	Pleasant
Odor threshold	Not Measured
pH	10.0
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	Not Measured
Flash Point	-157 F (Propane)
Evaporation rate (Ether = 1)	slower than ether
Flammability (solid, gas)	Flam. Aerosol 1; H222 Extremely flammable aerosol.
Upper/lower flammability or explosive limits	**Lower Explosive Limit:** N/A **Upper Explosive Limit:** N/A
Vapor pressure (Pa)	Not Measured
Vapor Density	>1
Specific Gravity	0.961 (8.01 lb/gal)
Solubility in Water	Soluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
VOC %	8.8% by wt.
Maximum Incremental Reactivity	Not Applicable
% Volatile (by volume)	Not Measured

9.2. Other information

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Do not mix with alkalis.

10.5. Incompatible materials

Caustics. Acids. Oxidizers.

10.6. Hazardous decomposition products

Oxides of Carbon

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Ethylene glycol monobutyl ether - (111-76-2)	1,414.00, Guinea Pig - Category: 4	1,200.00, Guinea Pig - Category: 4	173.00, Guinea Pig - Category: NA	No data available	No data available
Propane, 2-methyl- - (75-28-5)	No data available	No data available	658.00, Rat - Category: NA	No data available	No data available
Butane - (106-97-8)	No data available	No data available	658.00, Rat - Category: NA	No data available	No data available
Propane - (74-98-6)	No data available	No data available	658.00, Rat - Category: NA	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	3	Causes mild skin irritation. (Not adopted by US OSHA)
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000074-98-6	Propane	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000075-28-5	Propane, 2-methyl-	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000106-97-8	Butane	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0000111-76-2	Ethylene glycol monobutyl ether	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Ethylene glycol monobutyl ether - (111-76-2)	220.00, Fish (Piscis)	1,000.00, Daphnia magna	Not Available
Propane, 2-methyl- - (75-28-5)	Not Available	Not Available	Not Available
Butane - (106-97-8)	6.00, Fish (Piscis)	Not Available	Not Available
Propane - (74-98-6)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	UN1950	UN1950	UN1950
14.2. UN proper shipping name	Aerosols, Limited Quantity, 2.1	Aerosols, Limited Quantity, 2.1	Aerosols, Limited Quantity, 2.1
14.3. Transport hazard class(es)	**DOT Hazard Class:** 2.1	**IMDG:** 2.1	**Air Class:** 2.1
14.4. Packing group	Not Applicable	Not Applicable	Not Applicable

14.5. Environmental hazards

IMDG Marine Pollutant: No;

14.6. Special precautions for user

No further information

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification A B5

US EPA Tier II Hazards

Fire: Yes
Sudden Release of Pressure: Yes
Reactive: No
Immediate (Acute): Yes
Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:
(No Product Ingredients Listed)

EPCRA 302 Extremely Hazardous :
(No Product Ingredients Listed)

EPCRA 313 Toxic Chemicals:

Ethylene glycol monobutyl ether

Proposition 65 - Carcinogens (>0.0%):
(No Product Ingredients Listed)

Proposition 65 - Developmental Toxins (>0.0%):
(No Product Ingredients Listed)

Proposition 65 - Female Repro Toxins (>0.0%):
(No Product Ingredients Listed)

Proposition 65 - Male Repro Toxins (>0.0%):
(No Product Ingredients Listed)

N.J. RTK Substances (>1%):

Butane

Ethylene glycol monobutyl ether

Propane

Propane, 2-methyl-

Penn RTK Substances (>1%):

Butane

Ethylene glycol monobutyl ether

Propane

Propane, 2-methyl-

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16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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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