LPS

SAFETY DATA SHEET

1. Identification

Product identifier LPS® QB Duster

Other means of identification

Part Number 05710

Recommended use A nonflammable duster for removing contaminants, dirt, dust and other soils.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer Manufacturer

Company name LPS Laboratories, a division of Illinois Tool Works, Inc.

Address 4647 Hugh Howell Rd.

Tucker, GA 30084

Country (U.S.A.)

Tel: +1 770-243-8800

In Case of Emergency 1-800-424-9300 (inside U.S.)

+001 703-527-3887 (outside U.S.)

Website www.lpslabs.com E-mail sds@lpslabs.com

2. Hazard(s) identification

Physical hazards Gases under pressure Compressed gas

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Contains gas under pressure; may explode if heated.

Precautionary statement

Prevention Not assigned.
Response Not assigned.

Storage Protect from sunlight. Store in a well-ventilated place.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Not classified.

3. Composition/information on ingredients

Mixtures

Hazardous components

Chemical name	Common name and synonyms	CAS number	%
ETHANE, 1,1,1,2-TETRAFLUORO- (HFC-134a)	REFRIGERANT GAS R-134A	811-97-2	90 - 100

4. First-aid measures

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Call a physician if symptoms develop or persist. DO NOT give adrenaline, epinephrine or

similar drugs following exposure to this product.

Skin contact Wash off with warm water. In case of contact with liquefied gas, thaw frosted parts with lukewarm

water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Get medical attention if irritation develops and persists.

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Ingestion Not applicable.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special Provide general supportive measures and treat symptomatically.

Irritant effects. May cause drowsiness or dizziness.

treatment needed

General information

If you feel unwell, seek medical advice (show the label where possible).

Use fire-extinguishing media appropriate for surrounding materials.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Not available.

Specific hazards arising from

the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Specific methods

In the event of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use water spray to cool unopened containers. Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use a NIOSH/MSHA approved respirator if there is a risk of exposure at levels exceeding the exposure limits. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Dike far ahead of spill for later disposal. Isolate area until gas has dispersed. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not re-use empty containers. Avoid breathing gas. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities Level 1 Aerosol.

Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Keep tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

8. Exposure controls/personal protection

Occupational exposure limits

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Туре	Value	Form
ETHANE, 1,1,1,2-TETRAFL UORO-(HFC-134a) (CAS	TWA	1000 ppm	8 hour

Biological limit values

811-97-2)

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide

eyewash station.

Material name: LPS® QB Duster SDS US 2/7

Individual protection measures, such as personal protective equipment

Eye/face protection Not normally needed.

Skin protection

Hand protection Use protective gloves made of: Neoprene. Wear cold insulating gloves.

Other Wear suitable protective clothing. Wear protective gloves. Normal work clothing (long sleeved

shirts and long pants) is recommended.

No personal respiratory protective equipment normally required. If permissible levels are exceeded Respiratory protection

use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

Thermal hazards

General hygiene Do not eat, drink or smoke when using the product. Do not get in eyes, on skin, on clothing. Wash considerations hands after handling. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance Not available.

Physical state Gas. **Form** Aerosol. Color Not available. Odor Not available. Not established. Odor threshold Not applicable. **Melting point** Not available.

Initial boiling point and boiling

range

-15.52 °F (-26.4 °C)

Flash point Not applicable. **Evaporation rate** Not applicable. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

None

Not available.

Flammability limit - lower

(%) temperature

Flammability limit - upper

(%)

Not available.

Flammability limit - upper

(%) temperature

None

Not available. Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure

4432 mm Hg @ 21.1°C

3.54 Vapor density

Relative density Not available. 0.9 g/l @ 25°C Solubility(ies)

> 1 **Partition coefficient**

(n-octanol/water)

1369.4 °F (743 °C) **Auto-ignition temperature** > 698 °F (> 370 °C) **Decomposition temperature** Not established. **Viscosity**

Other information

Heat of combustion < 20 kJ/gPercent volatile 100 %

Specific gravity 1.19 - 1.23 @ 20°C

VOC (Weight %) 0% per State & Federal Consumer Product Regulations

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10. Stability and reactivity

Reactivity Alkalies. Powdered metal. Magnesium. Aluminum. Zinc. Strong oxidizing agents.

Chemical stability Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources.

Incompatible materials Alkalies. Powdered metal. Magnesium. Aluminum. Zinc. Strong oxidizing agents.

Hazardous decomposition

products

Thermal decomposition may yield hydrogen fluoride, carbon monoxide, carbon dioxide and

carbonyl halide.

11. Toxicological information

Information on likely routes of exposure

Ingestion Based on available data, the classification criteria are not met.

Irritating to respiratory system. Inhalation Skin contact May be irritating to the skin. Eve contact May be irritating to eyes.

Symptoms related to the physical, chemical and toxicological characteristics Irritant effects.

Information on toxicological effects

Based on available data, the classification criteria are not met. Acute toxicity Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/eye Based on available data, the classification criteria are not met.

irritation

Respiratory sensitization Based on available data, the classification criteria are not met.

Skin sensitization Based on available data, the classification criteria are not met.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met. **Aspiration hazard**

12. Ecological information

Ecotoxicity Ecological injuries are not known or expected under normal use.

Persistence and degradability Not inherently biodegradable.

Bioaccumulative potential Not available. Partition coefficient n-octanol / water (log Kow)

LPS® QB Duster > 1 ETHANE, 1,1,1,2-TETRAFLUORO-(HFC-134a) 1.06

Mobility in soil Not available. Other adverse effects Not available

13. Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents **Disposal instructions**

under pressure. Do not puncture, incinerate or crush. Dispose in accordance with all applicable

regulations.

Hazardous waste code D003: Waste Reactive material

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Dispose of in accordance with local

regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Do not re-use empty containers.

Material name: LPS® QB Duster

14. Transport information

DOT

UN number UN3159

UN proper shipping name 1,1,1,2-tetrafluoroethane

Transport hazard class(es) 2.2

Subsidiary class(es)Not available.Packing groupNot available.Special precautions for userNot available.

Labels required2.2Packaging exceptions306Packaging non bulkNonePackaging bulkNone

IATA

UN number UN3159

UN proper shipping name 1,1,1,2-tetrafluoroethane

Transport hazard class(es) 2.2 Subsidiary class(es) -

Packaging group Not available.

Environmental hazards No

Labels required Not available.

ERG Code 2L

Special precautions for user Not available.

IMDG

UN number UN3159

UN proper shipping name 1,1,1,2-tetrafluoroethane

Transport hazard class(es) 2.2 Subsidiary class(es) -

Packaging group Not available.

Environmental hazards

Marine pollutant No

Labels required Not available. EmS F-C, S-V Special precautions for user Not available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This substance/mixture is not intended to be transported in bulk.

DOT



IATA; IMDG



15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

SARA 304 Emergency release notification

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

SARA 302 Extremely No

hazardous substance

SARA 311/312 Hazardous No.

chemical

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Food and Drug

Not regulated.

Inventory name

Administration (FDA)

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

Country(s) or region

International Inventories

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

Issue date 06-13-2013

Material name: LPS® QB Duster sps us

United States & Puerto Rico

Yes

On inventory (yes/no)*

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Version # 01

Not available. **Further information HMIS®** ratings Health: 1

Flammability: 2 Physical hazard: 2

NFPA ratings Health: 2

Flammability: 1 Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available.

Revision Information Product and Company Identification: Product Uses

Composition / Information on Ingredients: Ingredients Exposure Controls / Personal Protection: OELs Physical & Chemical Properties: Multiple Properties Transport Information: Material Transportation Information Regulatory Information: United States

HazReg Data: North America

GHS: Classification

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