# SAFETY DATA SHEET

## 1. Identification

**Product identifier** LPS® QB Duster

Other means of identification

**Part Number** 05710, C05710

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

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name **ITW Pro Brands** 4647 Hugh Howell Rd. **Address** 

Tucker, GA 30084

Country (U.S.A.)

Tel: +1 770-243-8800

1-800-424-9300 In Case of Emergency

1-703-527-3887

Website www.lpslabs.com

E-mail lpssds@itwprobrands.com ITW Permatex Canada Supplier

1-35 Brownridge Road Halton Hills, ON, L7G 0C6

Canada

1-800-241-8334

# 2. Hazard(s) identification

Physical hazards Gases under pressure Liquefied gas

**Health hazards** Not classified. Not classified. **Environmental hazards** 

Label elements



Signal word

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

**Precautionary statement** 

Prevention Observe good industrial hygiene practices. Do not get in eyes, on skin, or on clothing. Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical Response

advice/attention. Wash hands after handling.

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

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

Other hazards May cause frostbite.

Supplemental information None.

#### 3. Composition/information on ingredients

**Mixtures** 

**Chemical name** Common name and synonyms CAS number % 811-97-2 90 - 100 1,1,1,2-tetrafluoro-(hfc-134a)

Material name: LPS® QB Duster SDS CANADA 1/7 All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 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

Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing,

redness, swelling, and blurred vision. Contact with liquefied gas might cause frostbites, in some

similar drugs following exposure to this product.

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

water. Get medical attention if irritation develops and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if **Eve contact** 

present and easy to do. Get medical attention if irritation develops and persists.

Ingestion Not likely, due to the form of the product.

Most important symptoms/effects, acute and

delayed

cases with tissue damage.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials. Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods General fire hazards Cool containers exposed to flames with water until well after the fire is out.

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

#### Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

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 smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Do not re-use empty containers. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities 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. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

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

# 8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

No biological exposure limits noted for the ingredient(s). **Biological limit values** 

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.

## Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove

supplier.

Other Wear suitable protective clothing.

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an Respiratory protection

air-supplied respirator.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

Physical state Gas. **Form** Aerosol. Color Colorless. Odor Not available. Odor threshold Not established. Not applicable. Hq

-149.8 °F (-101 °C) estimated Melting point/freezing point

Initial boiling point and boiling

range

-15.52 °F (-26.4 °C)

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

Flammability limit - lower

Not available.

(%)

Flammability limit - lower

(%) temperature

None

Flammability limit - upper

Not available.

Flammability limit - upper

(%) temperature

None.

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

Vapor pressure 4432 mm Hg @ 21.1°C

3.54 Vapor density

Relative density Not available.

Solubility(ies)

0.9 g/l @ 25°C Solubility (water)

Partition coefficient > 1

(n-octanol/water)

**Auto-ignition temperature** 1369.4 °F (743 °C)

Material name: LPS® QB Duster SDS CANADA **Decomposition temperature** > 698 °F (> 370 °C) Not established. Viscosity

Other information

Not explosive. **Explosive properties** Heat of combustion < 20 kJ/gOxidizing properties Not oxidizing.

100 % Percent volatile

Specific gravity 1.19 - 1.23 @ 20°C

VOC 0% per State & Federal Consumer Product Regulations

# 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

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

reactions

Conditions to avoid Heat. Avoid temperatures exceeding the decomposition temperature. Contact with incompatible

materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

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

carbonyl halide.

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful. May be fatal if inhaled.

Skin contact Contact with liquefied gas might cause frostbites, in some cases with tissue damage.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing,

redness, swelling, and blurred vision.

#### Information on toxicological effects

Contact with liquefied gas might cause frostbites, in some cases with tissue damage. Skin corrosion/irritation

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

#### Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

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

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Not likely, due to the form of the product. **Aspiration hazard** 

**Further information** In susceptible individuals, cardiac sensitization can result in potentially fatal heartbeat

irregularities.

## 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Not inherently biodegradable. Persistence and degradability

Material name: LPS® QB Duster SDS CANADA 05710, C05710 Version #: 01 Issue date: 11-02-2016

#### Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

LPS® QB Duster > 1 Ethane, 1,1,1,2-tetrafluoro-(hfc-134a) 1.06

Mobility in soil No data available.

Other adverse effects GWP: Global Warming Potential.

1320 (time horizon 100 years)

ODP: Ozone Depletion Potential.

#### 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 of contents/container in accordance

with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

D003: Waste Reactive material

Waste from residues / unused

products

Dispose of in accordance with local regulations. 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).

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

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

## 14. Transport information

**TDG** 

**UN number** UN1950

**UN** proper shipping name Aerosols, non-flammable

Transport hazard class(es)

Class 2.2 Subsidiary risk

Not applicable. Packing group **Environmental hazards** Not available.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

**UN number** 

UN proper shipping name

1,1,1,2-tetrafluoroethane

Transport hazard class(es)

Class 2.2 Subsidiary risk

Packing group Not applicable.

**Environmental hazards** No. **ERG Code** 2L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**IMDG** 

**UN number** UN3159

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

Transport hazard class(es)

Class 2.2 Subsidiary risk

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No. F-C. S-V **EmS** 

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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

Not applicable.

IATA; IMDG; TDG



**General information** 

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

# 15. Regulatory information

#### Canadian regulations

**Controlled Drugs and Substances Act** 

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Ethane, 1,1,1,2-tetrafluoro-(hfc-134a) (CAS 811-97-2)

**Precursor Control Regulations** 

Not regulated.

#### International regulations

## **Stockholm Convention**

Not applicable.

#### **Rotterdam Convention**

Not applicable.

# **Kyoto protocol**

Not applicable.

## **Montreal Protocol**

Not applicable.

## **Basel Convention**

Not applicable.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
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

Material name: LPS® QB Duster SDS CANADA

Country(s) or region Inventory name On inventory (yes/no)\*

**Philippines** Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) 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).

#### 16. Other information

Issue date 11-02-2016

Version #

Disclaimer ITW Pro Brands cannot anticipate all conditions under which this information and its product, or

> the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless

specified in the text.

Product and Company Identification: Product Uses **Revision information** 

Composition / Information on Ingredients: Ingredients Exposure Controls / Personal Protection: OELs Physical & Chemical Properties: Multiple Properties Toxicological information: Further information Ecological information: Other adverse effects

Transport Information: Material Transportation Information

Regulatory Information: United States

HazReg Data: North America

GHS: Classification

Material name: LPS® QB Duster SDS CANADA