



## Safety Data Sheet

### IDQ Operating, Inc.

44 Old Ridgebury Road  
Suite 300  
Danbury, CT 06810  
Tel. 1-203-205-2900

## 1. Product And Company Identification

**Product Name:** IDQ 332

**Responsible Party:** IDQ Operating, Inc.  
44 Old Ridgebury Road  
Suite 300  
Danbury, CT 06810

**Information Phone Number:** +1 203-205-2900

**Emergency Phone Number:**

For Medical Emergencies, call 1-866-949-6465 / +1 303-389-1332 (Outside US and Canada)  
For Transportation Emergencies, call 1-800-424-9300 (Chemtrec) +1-703-527-3887 for  
Outside US and Canada (call collect)

**SDS Date Of Preparation:** 03/07/2016

**Product Use and Uses Advised Against:** Automotive maintenance product – For consumer and professional use

## 2. Hazards Identification

Note: This product is a consumer product and is labeled in accordance with the Consumer Product Safety Commission regulations and not OSHA regulations. The requirements for the labeling of consumer products take precedence over OSHA labeling so the actual product label will not contain the OSHA label elements shown below on this SDS.

### GHS Classification:

Physical:	Health:
Gases Under Pressure: Compressed Gas	Non-Hazardous

### GHS Label Elements:



### Warning!

Statements of Hazard	Precautionary phrases
Contains gas under pressure; may explode if heated.	Protect from sunlight. Do not exposure to temperatures exceeding 50°C / 122°F. Dispose of contents and container in accordance with local and national regulations.

## 3. Composition/Information On Ingredients

Component	CAS No.	Amount
1,1,1,2-tetrafluoroethane	811-97-2	80-85%



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Alpha-butyl-omega-hydroxy-Poly[oxy(methyl-  
1,2-ethandiyl)]

9003-13-8

15-20%

**The exact concentrations are a trade secret.**

#### 4. First Aid Measures

**Inhalation:** If symptoms of exposure develop, remove to fresh air. Seek medical attention if breathing problem or irritation persists.

**Skin Contact:** Wash exposed skin with soap and water. If skin irritation or redness develops, seek medical attention.

**Eye Contact:** Flush eyes with large amounts of water for several minutes. If irritation or other symptoms develop, seek medical attention.

**Ingestion:** Ingestion is an unlikely route exposure for aerosol products. However, if ingestion should occur, seek medical attention.

**Most Important Symptoms:** May cause mild eye and skin irritation. Mists may cause mild respiratory irritation. Exposure to spray can cause freeze burns. Exposure to high concentrations can induce anesthetic effects progressing from dizziness, weakness, nausea, to unconsciousness.

**Indication of Immediate Medical Attention/Special Treatment:** None known.

#### 5. Firefighting Measures

**Suitable (and Unsuitable) Extinguishing Media:** Use extinguishing media suitable for surrounding fire. Cool fire exposed containers with water.

**Specific Hazards Arising from the Chemical:** Contents under pressure. Exposure of containers to heat and flames can cause them to rupture often with violent force. Burning may produce oxides of carbon and fluoride; and hydrogen fluoride.

**Special Fire Fighting Procedures:** Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting cans.

#### 6: Accidental Release Measures

**Personal Precautions, Protective Equipment, and Emergency Procedures:** Ventilate the area. Wear appropriate protective clothing and equipment. Spills of liquid material may cause floors to become slippery. Use caution to prevent slip hazards.

**Methods and Materials for Containment and Clean-Up:** Place leaking can in a pail in a well-ventilated area until pressure has dissipated. Collect liquid using inert absorbents and place into a suitable container for disposal.

**Environmental Precautions:** Report release as required by local and national regulations.



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## 7. Handling and Storage

**Precautions for Safe Handling:** Avoid contact with eyes and skin. Avoid breathing aerosol or gas. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Contents under pressure, do not puncture or incinerate containers.

**Conditions for Safe Storage, Including any Incompatibilities:** Store in a cool, well-ventilated area, away from incompatible materials. Do not store in direct sunlight or above 120°F.

## 8. Exposure Controls / Personal Protection

### Exposure Guidelines:

CHEMICAL	EXPOSURE LIMIT
1,1,1,2-tetrafluoroethane	1000 ppm TWA AIHA WEELs
Alpha-butyl-omega-hydroxy-Poly[oxy(methyl-1,2-ethandiyl)]	None established

**Appropriate Engineering Controls:** General ventilation should be adequate for normal use. For operations where the exposure limits may be exceeded, forced ventilation such as local exhaust may be needed to maintain exposures below applicable limits.

### Personal Protective Equipment

**Respiratory Protection:** None under normal use conditions. For operations where the exposure limits may be exceeded, a NIOSH approved supplied air respirators recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134; all applicable laws and regulations; and good industrial hygiene practice.

**Gloves:** Wear impervious gloves to avoid skin contact.

**Eye Protection:** Safety glasses are recommended if eye contact is possible.

**Other Protective Equipment/Clothing:** None required.

## 9. Physical and Chemical Properties

**Appearance And Odor:** Yellow liquid in aerosol can with ethereal and bland odor.

<b>Physical State:</b> Liquid-based aerosol	<b>Odor Threshold:</b> Not available
<b>pH:</b> < 7	<b>Specific Gravity:</b> 1.128
<b>Initial Boiling Point/Range:</b> -15.7 °F (-26.5°C)	<b>Vapor Pressure:</b> 4268 mm Hg at 20°C
<b>Melting/Freezing Point:</b> -15.7 °F (<-26.5°C)	<b>Vapor Density:</b> (Air = 1) 3.3
<b>Solubility In Water:</b> Water solubility 1.3%	<b>Percent Volatile:</b> 50%
<b>Viscosity:</b> 29 CP @ 20° C	<b>Evaporation Rate:</b> (n-butyl acetate = 1.0): >120
<b>Decomposition Temperature:</b> Not available	<b>VOC Content:</b> Not determined
<b>Coefficient Of Water/Oil Distribution:</b> Not determined	<b>Autoignition Temp:</b> 662°F (>350°C)



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**Flash Point:** Non-Flammable\*

**Flammability Limits:** LEL: 60,000 ppm

UEL: 360,000 ppm

**Flame extension:** Not determined

**Flammability (solid, gas):** Not applicable

\* Flash point identified for the liquid portion is for a volatile component constituting a small percentage of the liquid portion of the product and would have limited influence on the flammability of the liquid portion due to the mixture of volatile components with higher flash points which would be mixed with this component in the vapor phase. The mixture of volatile components will be defined by Raoult's Law of Partial Vapor Pressures. The remainder of the volatile liquid portion in the product has flash points above NA and constitutes ~ 0% by weight. The non-volatile liquid portion in the product has flash points above 67° C, 203° F and constitutes ~ 50% by weight.

## 10. Stability and Reactivity

**Reactivity:** Not normally reactive.

**Chemical Stability:** Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** None known

**Conditions to Avoid:** Keep away from excessive heat, and open flames. Containers may rupture at temperatures > 120°F (48.8°C.)

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Burning may produce oxides of carbon and fluoride; and hydrogen fluoride.

## 11. Toxicological Information

### Potential Health Effects:

#### **Acute Hazards:**

**Inhalation:** Mist can irritate the throat and respiratory tract. Exposure to high concentrations can induce anesthetic effects progressing from dizziness, weakness, nausea, to unconsciousness.

**Skin Contact:** May cause mild skin irritation.

**Eye Contact:** Direct contact may cause mild eye irritation with redness, and tearing.

**Ingestion:** Ingestion is an unlikely route exposure for aerosol products. Swallowing may cause gastrointestinal disturbances.

**Chronic Effects:** None expected.

**Carcinogenicity Listing:** None of the components listed at 0.1% or greater is a carcinogen or potential carcinogen by IARC, NTP, or OSHA

### Numerical Measures of Toxicity:

1,1,1,2-tetrafluoroethane: LC50 Inhalation Rat: >500,000/4 hr.

Alpha-butyl-omega-hydroxy-Poly[oxy(methyl-1,2-ethandiyl)]:

LD50 Oral Rat: >5,000 mg/kg

LD50 Skin Rabbit: >5,000 mg/kg

## 12. Ecological Information

**Ecotoxicity:** No ecotoxicity data is currently available for product.



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**Persistence and Degradability:** No data available for product.

**Bio accumulative Potential:** No data available for product.

**Mobility in Soil:** No data available for product.

**Other Adverse Effects:** None

### 13. Disposal Considerations

Dispose of in accordance with all local, state/provincial and federal regulations. Offer empty containers for recycling.

### 14. Transport Information

#### **DOT Hazardous Materials Description:**

**DOT Hazardous Materials Description:** UN3159, 1,1,1,2-Tetrafluoroethane, 2.2, LTD QTY

**IMDG Hazardous Materials Description:** UN3159, 1,1,1,2-Tetrafluoroethane, 2.2, LTD QTY

### 15. Regulatory Information

#### **United States:**

**EPA TSCA INVENTORY:** All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

**CERCLA Section 103:** This product has no RQ (reportable quantity) that must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**SARA Hazard Category (311/312):** Sudden Release of Pressure

**SARA 313:** This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Title III, Section 313 (40 CFR 372): None

### 16. Other Information

NFPA Rating (NFPA 704):	Health: 1	Fire: 0	Instability: 0
HMIS Rating:	Health: 1	Fire: 2	Physical Hazard: 2

REVISION DATE: 03/07/2016

REVISION SUMMARY: New SDS

PREVIOUS REVISION DATE: N/A



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DATA SUPPLIED IS FOR USE ONLY IN CONNECTION WITH OCCUPATIONAL SAFETY AND HEALTH