



# SAFETY DATA SHEET

## Section 1: IDENTIFICATION

### 1.1 PRODUCT IDENTIFIER

**Product Name:** Seal-e-zee  
**Product Code:** 19500, 19502

### 1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

**Use:** Seal Lubricant

### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

**Name/Address:** International Lubricants, Inc.  
P.O. Box 24743, Seattle WA  
98124-0743, USA  
**Telephone Number:** (206) 762-5343  
(800) 333-LUBE (5823)

### 1.4 EMERGENCY TELEPHONE NUMBER

**Emergency Telephone Number:** CHEM TEL (800) 255-3924  
CHEM TEL (813) 248-0585

## Section 2: HAZARD(S) IDENTIFICATION

### 2.1 CLASSIFICATION OF THE CHEMICAL ACCORDING TO OSHA HAZCOM 2012

**Hazard class**  
Gases under pressure (Liquefied gas)

### 2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM 2012

**Hazard Pictogram:**



**Signal Word:** Warning  
**Hazard Statement:** Contains gas under pressure. May explode if heated.  
May cause frostbite. May displace oxygen and cause rapid suffocation.  
**Prevention:** Protect from sunlight. Use and store in a well-ventilated place.  
**Response:** Not applicable  
**Storage:** Protect from sunlight. Store in a well-ventilated area.  
**Disposal:** Not applicable

### 2.3 ADDITIONAL INFORMATION

**Hazards not otherwise classified:** Liquid can cause burns similar to frostbite. Asphyxiant in high concentrations.



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## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 MIXTURES

Ingredient	CAS No	Wt. %
1,1,1,2-Tetrafluoroethane	811-97-2	60 - 100

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

## Section 4: FIRST- AID MEASURES

### 4.1 DESCRIPTION OF THE FIRST AID MEASURE

- Eye:** In case of contact, immediately flush eyes with plenty of water for at least 10 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.
- Skin:** For exposure to liquid, immediately warm frostbite area with warm water not to exceed 105°F (41°C). Water temperature should be tolerable to normal skin. Maintain skin warming for at least 15 minutes or until normal coloring and sensation have returned to the affected area. In case of massive exposure, remove clothing while showering with warm water. Seek medical evaluation and treatment as soon as possible.
- Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Ingestion:** Ingestion of liquid can cause burns similar to frostbite. Never give anything by mouth to an unconscious person. If frostbite occurs, seek medical attention immediately.

### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Eye:** Liquid can cause burns similar to frostbite.
- Skin:** Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.
- Inhalation:** No known significant effects or critical hazards.
- Ingestion:** Ingestion of liquid can cause burns similar to frostbite.

### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

- Note to Physicians:** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific Treatments:** No specific treatments.

## Section 5: FIRE-FIGHTING MEASURES

### 5.1 EXTINGUISHING MEDIA

- Suitable Extinguishing Media:** Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable Extinguishing Media:** None known

### 5.2 SPECIAL HAZARDS ARISING FROM THE CHEMICAL



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**Products of Combustion:** May include, and are not limited to oxides of carbon, halogenated compounds

## 5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems. Stop flow of product if safe to do so. Use water spray or fog to knock down fire fumes if possible.

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## Section 6: ACCIDENTAL RELEASE MEASURES

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### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate area. Remove sources of ignition. Keep unnecessary personnel away. Ruptured cylinders may rocket.

### 6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

**Methods for Containment:** Prevent further leakage or spillage if safe to do so. Ventilate area using forced ventilation, especially low or enclosed places where heavy vapors might collect.

**Methods for Cleaning-Up:** Sweep up or gather material and place in appropriate container for disposal. Allow gas to dissipate.

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## Section 7: HANDLING AND STORAGE

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### 7.1 PRECAUTIONS FOR SAFE HANDLING

**Handling:** Keep away from heat, open flames, or other sources of ignition. Avoid contact with eyes. Avoid contact with skin. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in a well-ventilated area. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

**General Hygiene Advice:** Handle in accordance with good industrial hygiene and safety practice.

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

**Storage:** Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Do not store at temperatures above 49 °C / 120 °F. (See section 10)

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## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1 CONTROL PARAMETERS

#### Exposure Guidelines

Occupational Exposure Limits		
Ingredient	OSHA-PEL	ACGIH-TLV
1,1,1,2-Tetrafluoroethane	Not available	Not available

### 8.2 EXPOSURE CONTROLS

**Engineering Controls:** Use ventilation adequate to keep exposures below recommended exposure limits.



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### 8.3 INDIVIDUAL PROTECTIVE MEASURES

**Personal Protective Equipment:**

<b>Eye/Face Protection:</b>	Safety glasses or goggles are recommended when using product.
<b>Skin Protection:</b>	Wear suitable protective clothing.
<b>Hand protection:</b>	Wear suitable gloves.
<b>Body Protection:</b>	Wear suitable protective clothing.
<b>Respiratory Protection:</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>General Health and Safety Measures:</b>	Handle according to established industrial hygiene and safety practices.

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### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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#### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear
<b>Color:</b>	Colorless
<b>Odor:</b>	Ethereal
<b>Odor Threshold:</b>	Not available.
<b>Physical State:</b>	Gas/Pressurized Liquid
<b>pH (of concentrate):</b>	Not available.
<b>Melting Point/Freezing Point (of concentrate):</b>	Not available.
<b>Initial Boiling Point and Boiling Range (of concentrate):</b>	Not available
<b>Flash Point (of concentrate):</b>	> 200°C (open cup)
<b>Evaporation Rate (of concentrate):</b>	> 1 (ether = 1)
<b>Flammability:</b>	No data available
<b>Lower Flammability/Explosive Limit:</b>	Not available.
<b>Upper Flammability/Explosive Limit:</b>	Not available.
<b>Vapor Pressure:</b>	70 – 90 psig
<b>Vapor Density:</b>	> 1 (Air = 1)
<b>Relative Density/Specific Gravity (of concentrate):</b>	> 1
<b>Solubility in Water (of concentrate):</b>	Negligible
<b>Partition coefficient: n-octanol/water:</b>	Not available.
<b>Auto-ignition Temperature:</b>	Not available.
<b>Decomposition Temperature:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Explosive Properties:</b>	Not available.
<b>Oxidizing Properties:</b>	Not available.



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## Section 10: STABILITY AND REACTIVITY

### 10.1 REACTIVITY

No dangerous reaction known under conditions of normal use.

### 10.2 CHEMICAL STABILITY

Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn.

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Will not occur.

### 10.4 CONDITIONS TO AVOID

None under recommended storage and handling conditions (see section 7).

### 10.5 INCOMPATIBLE MATERIALS

Oxidizers. Bases. Alkaline earth metals.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

May include but are not limited to oxides of carbon, fluorine, hydrogen fluoride, carbonyl fluoride.

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

**Likely Routes of Exposure:** Eye contact, skin contact, and inhalation

**Symptoms related to physical/chemical/toxicological characteristics:**

**Eye:** May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Contact with liquefied gas may cause frostbite.

**Skin:** May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Contact with liquefied gas may cause frostbite.

**Ingestion:** Not a normal route of entry. May cause stomach distress, nausea, or vomiting.

**Inhalation:** Excess intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

**Acute Toxicity:**

Ingredient	LD <sub>50</sub> (oral)	LC <sub>50</sub> (inhalation)
1,1,1,2-Tetrafluoroethane	Not available.	1500 gm/m <sup>3</sup> 4 hour, rat

**Calculated overall Chemical Acute Toxicity Values**

LC <sub>50</sub> (inhalation)	LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)
Not available.	Not available	Not available.

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Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)*
1,1,1,2-Tetrafluoroethane	Not listed.

\* See Section 15 for more information.

**11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE**

<b>Skin Corrosion/Irritation:</b>	Based on available data, the classification criteria are not met.
<b>Serious Eye Damage/Irritation:</b>	Based on available data, the classification criteria are not met.
<b>Respiratory Sensitization:</b>	Based on available data, the classification criteria are not met.
<b>Skin Sensitization:</b>	Based on available data, the classification criteria are not met.
<b>STOT-Single Exposure:</b>	Based on available data, the classification criteria are not met.
<b>Chronic Health Effects:</b>	
<b>Carcinogenicity:</b>	Based on available data, the classification criteria are not met.
<b>Germ Cell Mutagenicity:</b>	Based on available data, the classification criteria are not met.
<b>Reproductive Toxicity:</b>	
<b>Developmental:</b>	Based on available data, the classification criteria are not met.
<b>Fertility:</b>	Based on available data, the classification criteria are not met.
<b>STOT-Repeated Exposure:</b>	Based on available data, the classification criteria are not met.
<b>Aspiration Hazard:</b>	Based on available data, the classification criteria are not met.
<b>Toxicologically Synergistic Materials:</b>	Not available.
<b>Other Information:</b>	Not available.

**Section 12: ECOLOGICAL INFORMATION****12.1 ECOTOXICITY**

**Acute/Chronic Toxicity:** No ecological damage caused by this product.

**12.2 PERSISTENCE AND DEGRADABILITY**

Not readily biodegradable

**12.3 BIOACCUMULATIVE POTENTIAL**

**Bioaccumulation:** Low potential

**12.4 MOBILITY IN SOIL**

Not available.

**12.5 OTHER ADVERSE EFFECTS**

Not available.

**SAFETY DATA SHEET****Section 13: DISPOSAL CONSIDERATIONS****13.1 WASTE TREATMENT METHODS**

**Disposal Method:** The material and container must be disposed of in a safe way. Dispose in accordance with all applicable regulations.

**Other disposal recommendations:** Not available.

**Section 14: TRANSPORT INFORMATION****14.1 UN NUMBER**

UN3159

**14.2 UN PROPER SHIPPING NAME**

1,1,1,2-Tetrafluoroethane

**14.3 TRANSPORT HAZARD CLASS (ES)**

Class 2.2 - Non-flammable compressed gas

**14.4 PACKING GROUP**

Not applicable.

**14.5 ENVIRONMENTAL HAZARDS**

Not available.

**14.6 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE**

Not available.

**14.7 SPECIAL PRECAUTIONS FOR USER**

Do not handle until all safety precautions have been read and understood.

**Section 15: REGULATORY INFORMATION****15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL**

SDS prepared pursuant to the Hazard Communication Standard (29CFR1910.1200) HazCom 2012

SARA Title III				
Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
1,1,1,2-Tetrafluoroethane	Not listed.	Not listed.	Not listed.	Not listed.

**State Regulations****California Proposition 65:**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.



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**Global Inventories:**

Ingredient	USA TSCA
1,1,1,2-Tetrafluoroethane	Yes.

NFPA National Fire Protection Association:	
Health:	0
Fire:	1
Reactivity:	0

**Hazard Rating:** 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

**SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:**

**CP65 California Proposition 65**

**OSHA (O) Occupational Safety and Health Administration.**

**ACGIH (G) American Conference of Governmental Industrial Hygienists.**

- A1 - Confirmed human carcinogen.
- A2 - Suspected human carcinogen.
- A3 - Animal carcinogen.
- A4 - Not classifiable as a human carcinogen.
- A5 - Not suspected as a human carcinogen.

**IARC (I) International Agency for Research on Cancer.**

- 1 - The agent (mixture) is carcinogenic to humans.
- 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
- 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
- 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

**NTP (N) National Toxicology Program.**

- 1 - Known to be carcinogens.
- 2 - Reasonably anticipated to be carcinogens.

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**Section 16: OTHER INFORMATION**

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**Date of Preparation:** March 18, 2016

**Version:** 3.0

**Revision Date:** March 18, 2016

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**End of Safety Data Sheet**