MATERIAL SAFETY DATA SHEET

Seal-e-zee Extreme

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Seal-e-zee Extreme
Product Number:	19501
Product Use:	Seal Conditioner.
Manufacturer/Supplier:	International Lubricants, Inc. P.O. Box 24743, Seattle WA 98124-0743, USA
Phone Number:	(206) 762-5343 (800) 333-LUBE (5823)
Emergency Phone:	CHEM TEL (800) 255-3924 CHEM TEL (813) 248-0585
Date of Preparation:	January 2, 2012

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING

CONTENTS UNDER PRESSURE. CONTAINER MAY EXPLODE IF HEATED. Do not puncture. Do not burn. Store away from heat.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, eye contact, and inhalation.

Eye: May irritate eyes. Contact with liquefied gas may cause frostbite.

Skin: May irritate skin. Contact with liquefied gas may cause frostbite.

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

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

Chronic Effects: Not hazardous by WHMIS/OSHA criteria.

Signs and Symptoms: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Medical Conditions Aggravated By Exposure: Certain pre-existing conditions may make workers particularly susceptible to the effects of this chemical: asthma, allergies, impaired pulmonary function.

Target Organs: Not available.

Potential Environmental Effects: This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems. See Section 12 for more information.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
1,1,1,2-Tetrafluoroethane	811-97-2	60 - 100

Section 4: FIRST AID MEASURES

Eye Contact: Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

Skin Contact: After contact with skin, wash immediately with plenty of water. Remove and wash contaminated clothing before re-use. If irritation persists, get medical attention.

Inhalation: If breathed in, move person into fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.

Ingestion: If swallowed, call a Poison Control Centre or doctor immediately. DO NOT induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. If swallowed, rinse mouth with water (only if the person is conscious).

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

Note to Physicians: Symptoms may be delayed.

Section 5: FIRE FIGHTING MEASURES

Flammability: Not flammable by WHMIS/OSHA criteria.

Means of Extinction:

Suitable Extinguishing Media: Powder, water spray, foam, carbon dioxide.

Unsuitable Extinguishing Media: Not available.

Products of Combustion: Oxides of carbon. Fluorine. Hydrogen fluoride. Carbonyl fluoride.

Explosion Data:

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: Pressurized containers may explode when exposed to heat or flame. In case of fire and/or explosion do not breathe fumes. Firefighters should wear full protective clothing including self contained breathing apparatus.

Section 6: ACCIDENTAL RELEASE MEASURES

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

Environmental Precautions: Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks).

Methods for Containment: Prevent further leakage or spillage if safe to do so. Use sand, perlite or vermiculite as an absorbent for large spills of this material.

Methods for Clean-Up: Sweep up or gather material and place in appropriate container for disposal. Allow gas to dissipate into the atmosphere.

Other Information: Not available.

Section 7: HANDLING AND STORAGE

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.

Storage:
Keep out of the reach of children. Do not store at temperatures above 49 ℃. Store in a cool, dry, well-ventilated area. Keep away from food, drink and animal feedingstuffs.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

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

Engineering Controls: Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Personal Protective Equipment:

Eye/Face Protection: Wear safety glasses with side shields.

Hand Protection: Wear suitable gloves.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear.
Color:	Colorless.
Odour:	Ethereal.
Odour Threshold:	Not available.
Physical State:	Gas/Pressurized Liquid.
pH:	Not applicable.
Freezing Point:	Not available.
Boiling Point:	- 25.6 ℃ @ 736 mmHg
Flash Point:	Not available.
Evaporation Rate:	> 1 (CCl_4 = 1)
Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	96 psia @ 25 ℃
Vapor Density:	3.6 (Air = 1) @ 25 ℃
Specific Gravity:	1.208 @ 25 ℃
Solubility in Water:	Negligible.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	Not available.

Section 10: STABILITY AND REACTIVITY

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

Conditions of Reactivity: No dangerous reaction known under conditions of normal use.

Incompatible Materials: Oxidizers. Bases. Alkaline earth metals.

Hazardous Decomposition Products: Oxides of carbon. Fluorine. Hydrogen fluoride. Carbonyl fluoride.

Possibility of Hazardous Reactions: Will not occur.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

Ingredient	LD_{50} (oral)	LC_{50}
1,1,1,2-Tetrafluoroethane	Not available.	1500 gm/m³ 4 hr, rat

Eye: May irritate eyes. 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 irritate skin. 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 exposure. May cause stomach distress, nausea or vomiting.

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

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Not available.

Chronic Effects: Not hazardous by WHMIS/OSHA criteria.

Carcinogenicity: Not hazardous by WHMIS/OSHA criteria.

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen *
1,1,1,2-Tetrafluoroethane	Not listed.

* See Section 15 for more information.

Mutagenicity: Not hazardous by WHMIS/OSHA criteria.

Reproductive Effects: Not hazardous by WHMIS/OSHA criteria.

Developmental Effects:

Teratogenicity: Not hazardous by WHMIS/OSHA criteria.

Embryotoxicity: Not hazardous by WHMIS/OSHA criteria.

Respiratory Sensitization: Not hazardous by WHMIS/OSHA criteria.

Skin Sensitization: Not hazardous by WHMIS/OSHA criteria.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: This product is not expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:
This material and its container must be disposed of in a safe way. Dispose in accordance with all applicable regulations.

Section 14: TRANSPORTATION INFORMATION

DOT Classification:
ORM-D

TDG Classification:
Limited Quantity

Section 15: REGULATORY INFORMATION

Federal Regulations

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

US: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200).

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.

Global Inventories

Ingredient	Canada DSL/NDSL	USA TSCA
1,1,1,2-Tetrafluoroethane	DSL	Yes.

HMIS - Hazardous Materials Identification System

Health - 0 **Flammability -** 1 **Physical Hazard –** 0 **PPE –** B

NFPA - National Fire Protection Association:

Health - 0 **Fire -** 1 **Reactivity -** 0

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

WHMIS Classification:
Class A - Compressed Gas

WHMIS Hazard Symbols:

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

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.

Section 16: OTHER INFORMATION

Disclaimer:
The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

Canadian WHMIS Expiry Date: January 2, 2015

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