LUBEGARD® Seal Fixx™

Safety Data Sheet

Conforms to United States OSHA 2012 HazCom

Date of issue: 09/22/2017 Revision date: 09/22/2017 : Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Lubegard® Seal Fixx™

Product code : LG-FIXX

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relavant identified uses

Main Use Category: Lubricant :

1.2.2 Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer
International Lubricants, Inc.
7930 Occidental Ave S
Seattle, WA 98108
Telephone Number: (206) 762-5343
(800) 333-LUBE (5823)

1.4. Emergency telephone number

Emergency telephone numbers: CHEM TEL (800) 255-3924

CHEM TEL (813) 248-0585

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to United States OSHA 2012 HazCom

Hazard Class

Eye Irritant Category 2B

Aspiration Hazard Category 1

Specific Target Organ Toxicity Category 2

Flammable Liquid Category 4

2.2. Label elements

Label elements according to United States OSHA 2012 HazCom

Hazard Pictograms

Signal Word Danger

Hazard Statements

H320 - Causes eye irritation

H304 - May be fatal if swallowed and enters airways

H371 - May cause damage to organs, i.e, kidneys

H227 - Combustible liquid

Precautionary Statements

Prevention

P264 - Wash hands thoroughly after handling.

P210 - Keep away from heat/sparks/open flames/hot surfaces – No smoking.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P270 - Do not eat, drink, or smoke when using this product.

Response	P305+P351+P338 - IF IN EYES – Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists, get medical advice/attention. P309+P311 - If exposed or if you fell unwell: Call a POISON CENTER or doctor/physician. P370+P378 - In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam to extinguish. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P331 - Do not induce vomiting.
Storage	P403 +P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up.
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national, and international regulations.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixtures

Ingredient Name	CAS Number	Weight %
Glycol ethers	111-90-0	100

SECTION 4 : First aid measures

4.1. Description of first aid measures

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Irritation persists, get medical attention.

First-aid measures after skin contact : In case of contact, immediately wash skin with soap and warm water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention it irritation develops and persists.

First-aid measures after ingestion : If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention or call poison control immediately.

First-aid measures after inhalation : If breathed in, move person to fresh air and keep them in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if you feel unwell.

4.2. Indication of any immediate medical attention and special treatment needed

Notice to Physician : Monitor kidney function closely.

SECTION 5 : Firefighting measures

5.1. Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide, alcohol-resistance foam, dry chemical

Unsuitable Extinguishing Media: High volume water jet

5.2. Special Hazards Arising from the Chemical

Products of Combustion: Carbon oxides

Explosion Data:

Sensitivity to Mechanical Impact: Not available

Sensitivity to Static Discharge: Not available

5.3. Special Protective Equipment and Precautions for Fire Fighters

If necessary, wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use personal protective equipment.

SECTION 6 : Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protection recommended in Section 8.

6.2. Methods and material for containment and cleaning up

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow the material to enter waterways. Use appropriate Personal Protective Equipment (PPE). Dispose of material according to local/national regulations.

Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Do not swallow. Do not breathe dust/fume/gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. When using do not eat or drink. (See Section 8).

General hygiene advice : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep away from sources of ignition. Keep container tightly closed in a well-ventilated area away from incompatible materials.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Guidelines

Occupational Exposure Limits		
Ingredient Name	**OSHA-PEL**	**ACGIH-TLV**
Glycol ether	Not available	Not available

8.2. Exposure controls

Engineering Controls	:	Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

8.3. Individual Protective Measures

Personal Protective Equipment		
Hand protection	:	Wear chemically resistant protective gloves.
Eye protection	:	Wear approved eye protection (properly fitted dust-proof or splash-proof chemical safey goggles) and face protection (face shield).
Skin and body protection	:	Wear suitable protective clothing.
Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and the safe working limits of the selected respirator.
General health and safety measures	:	Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance, physical state and color	:	Clear, color-less liquid
Odor	:	Mild, pleasant
Odor threshold	:	1.1 ppm
pH	:	No data available
Melting point / Freezing Point	:	-90°C (-130°F)
Initial boiling point / Boiling range	:	196 to 198°C (385 to 388°F)
Flash point	:	91°C (196°F), Closed cup
Relative evaporation rate	:	0.01 (Butyl Acetate = 1)

Flammability (solid, gas)	:	No data available
Lower expolsive limit	:	1.2% by volume
Upper explosive limit	:	23% by volume
Vapor pressure	:	0.095 mm Hg @ 20°C, 0.127 mm Hg @ 25°C
Vapor density	:	<4.62 @ 20 to 25°C (Air = 1)
Relative density	:	0.99 gm/cm^3 @ 20°C
Solubility	:	Soluble in water
Partition coefficient: n-octanol/water	:	log Pow: -0.54 @ 20°C
Auto-ignition temperature	:	203 to 204°C @ 760 mmHg
Decomposition temperature	:	No data available
Viscosity, kinematic	:	4.54 cSt @ 20°C
Viscosity, dynamic	:	4.4 to 4.5 mPa.s @ 20°C
Oxidizing properties	:	No data available
Explosive properties	:	No data available

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.

10.3. Possibility of hazardous reactions

Can form potentially expolosive peroxides upon long standing in air.

10.4. Conditions to avoid

Keep away from heat, flame, sparks, and other ignition sources. Exposure to air.

10.5. Incompatible materials

Acid chlorides, acid anhydrides, bases, strong acids, strong oxidizing agents

10.6. Hazardous decomposition products

Aldehydes, ketones, organic acids.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely Routes of Exposure Eye contact, skin contact, inhalation, ingestion.

11.2. Delayed, Immediate, and Chronic Effects of Short-Term and Long-Term Exposure

Skin Corrosion/Irritation: Based on available data, the classification criteria are not met.
Serious Eye Damage/Irritation: May cause temporary eye 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.
STOT-Single Exposure: May cause damage to kidneys.
Chronic Health Effects:
Carcinogenicity: Based on available data, the classification criteria are not met.
Germ Cell Mutagenicity: Based on available data, the classification criteria are not met.
Reproductive Toxicity:
Developmental: Based on available data, the classification criteria are not met.
Fertility: Based on available data, the classification criteria are not met.
STOT-Repeated Exposure: Based on available data, the classification criteria are not met.
Aspiration Hazard: May be fatal if swallowed and enters airways.
Toxicologically Synergistic Materials: Not available.
Other Information: Not available.

11.3. Acute Toxicity

Ingredient Name	LC50	LD50
Glycol ether	Inhalation >5240 mg/m^3, 4 hours, rat	Oral 7250 mg/kg, mouse Dermal >32 gm/kg, guinea pig

Ingredient Name	Chemical Listed as Carcinogen or Potential Carcinogen (CP65, OSHA, ACGIH, IARC, NTP)*
Glycol ether	Not listed

* See Section 15 for more information

SECTION 12: Ecological information

Toxicity

Acute toxicity to fish
Material is practically non-toxic to aquatic organisms on an acute basis
(LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).
LC50, Ictalurus catus (catfish), flow-through test, 96 Hour, 6,010 mg/l, OECD Test Guideline 203 or Equivalent

Acute toxicity to aquatic invertebrates
LC50, Daphnia magna (Water flea), static test, 48 Hour, 1,982 mg/l, OECD Test Guideline 202 or Equivalent

Acute toxicity to algae/aquatic plants
Based on information for a similar material:
ErC50, Desmodesmus subspicatus (green algae), static test, 96 Hour, Growth rate inhibition,> 100 mg/l, OECD Test Guideline 201 or Equivalent

Toxicity to bacteria
EC10, Bacteria, 16 Hour, 4,000 mg/l

Persistence and degradability
Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Material is ultimately biodegradable (reaches > 70% mineralization in OECD test(s) for inherent biodegradability).
10-day Window: Pass
Biodegradation: 90 %
Exposure time: 28 days
Method: OECD Test Guideline 301E or Equivalent
10-day Window: Not applicable

Biodegradation: > 90 %
Exposure time: 5.5 d
Method: OECD Test Guideline 302B or Equivalent

Theoretical Oxygen Demand: 1.91 mg/mg

Chemical Oxygen Demand: 1.84 mg/mg

Biological oxygen demand (BOD)

Incubation Time	BOD
5 days	5% to 17%
10 days	31% to 71%
20 days	49% to 87%

Photodegradation
Test Type: Half-life (indirect photolysis)
Sensitizer: OH radicals
Atmospheric half-life: 4.093 Hour
Method: Estimated.

Bioaccumulative potential
Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).
Partition coefficient: n-octanol/water(log Pow): -0.54 Measured

Mobility in soil
Potential for mobility in soil is very high (Koc between 0 and 50).
Partition coefficient(Koc): 20 Estimated.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal Method: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Other Disposal Recommendations: Not available.

SECTION 14: Transport information

DOT (Department of Transportation):

NA1993, Combustible liquid, n.o.s., (ETHANOL, 2-(2-ETHOXYETHOXY)-), CBL, III

IATA (International Air Transport Association): Not regulated as a dangerous good.

IMDG-Code: Not regulated as a dangerous good

Special Notes: The flash point for this material is greater than 100°F (38°C).

Therefore, in accordance with 49 CFR 173.150(f) non-bulk containers (<450L or <119 gallon capacity) of this material may be shipped as non-regulated when transported solely by land, as long as the material is not a hazardous waste, a ma- rine pollutant, or specifically listed as a hazardous substance.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the chemical

15.1.1. United States : Safety data sheet prepared pursuant to the Hazard Communication Standard, 29 CFR 1910.1200 (2012 OSHA HazCom)

SARA Title III

Ingredient Name	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Glycol ether	Not listed	Not listed	No assigned value	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 Name	Canada DSL/NDSL	USA TSCA
Glycol ether	Yes	Yes

HMIS - Hazardous Materials Information System

Health:	1
Fire:	2
Reactivity:	1

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

NFPA - National Fire Protection Association

Health:	1
Fire:	2
Reactivity:	1

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

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65 **California Proposition 65**

OSHA **Occupational Safety and Health Administration.**

ACGIH **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 **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 **National Toxicology Program.**

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

SECTION 16: Other information

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Prepared by: International Lubricants, Inc.
Phone: (800)-333-5823
www.lubegard.com

End of Safety Data Sheet