

Foaming Lubricant

SECTION 1. IDENTIFICATION

Product Identifier	Foaming Lubricant
Part number	PLI-013F
Product Family	Mixture
Recommended Use	Penetrant.
Restrictions on Use	None known.
Supplier Identifier	Performa Lubricants International, Inc., 42 Montrose Crescent, Whitby, ON, L1R 1C5, 905.668.1440 1.800.808.3062
Emergency Phone No.	CANUTEC, +1.613.996.6666, Operation hours: 24/7
SDS No.	PLI-013F

SECTION 2. HAZARD IDENTIFICATION

Classification

Flammable aerosol - Category 1; Gas under pressure - Compressed gas; Skin irritation - Category 2; Eye irritation - Category 2A; Aspiration hazard - Category 1

Label Elements



Danger

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Pressurized container: may burst if heated.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

Keep away from heat, sparks, open flames, and hot surfaces. – No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Wash hands and skin thoroughly after handling.

Wear protective gloves.

Wear eye protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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Store in a well-ventilated place.

Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Petroleum gases, liquefied	68476-85-7	10-30	
1,2,4-Trimethylbenzene	95-63-6	10-30	
Solvent naphthat (petroleum), light aromatic	64742-95-6	10-15	
Oleic acid	112-80-1	5-10	
Methyl isobutyl carbinol	108-11-2	3-7	
2-Butoxyethanol	111-76-2	3-7	
1,3,5-Trimethylbenzene	108-67-8	1-5	
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	1-5	
Hydrotreated light naphthenic distillate	64742-53-6	1-5	
Amides, coco, Ú,Ú-bis(hydroxyethyl)	68603-42-9	1-5	
2,2-iminodiethanol	111-42-2	0.1-1.0	
Xylene (mixed isomers)	1330-20-7	0.1-1.0	
Diethylbenzene	25340-17-4	0.1-1.0	
Cumene	98-82-8	0.1-1.0	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor. If breathing has stopped, trained personnel should begin rescue breathing. Immediately call a Poison Centre or doctor.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation occurs, get medical advice or attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists, get medical advice or attention.

Ingestion

Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Drink two glasses of water. Immediately call a Poison Centre or doctor.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide or dry chemical.

Unsuitable Extinguishing Media

DO NOT use water or water-based extinguishing agents.

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Specific Hazards Arising from the Product

Contains gas under pressure; may explode if heated. Flammable aerosol. May travel a considerable distance to a source of ignition and flash back to a leak or open container.

Carbon oxides, and other unidentified organic compounds.

Special Protective Equipment and Precautions for Fire-fighters

See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Remove or isolate incompatible materials as well as other hazardous materials. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Contaminated absorbent poses the same hazard as the spilled product. Place used absorbent into suitable, covered, labelled containers for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Only use where there is adequate ventilation.

Conditions for Safe Storage

Store in an area that is: cool, dry, well-ventilated. Store at temperatures not exceeding: 40°C.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL	
	TWA	STEL [C]	TWA	Ceiling
Methyl isobutyl carbinol	25 ppm Skin	40 ppm	25 ppm	Not established
1,3,5-Trimethylbenzene	25 ppm	Not established	Not established	Not established
2,2-iminodiethanol	1 mg/m ³ A3	Not established	15 mg/m ³	Not established
2-Butoxyethanol	20 ppm A3	Not established	240 mg/m ³	Not established
Xylene (mixed isomers)	100 ppm A4	150 ppm A4	435 mg/m ³	Not established
1,2,4-Trimethylbenzene	25 ppm	Not established	Not established	Not established
Cumene	50 ppm	Not established	50 ppm	Not established

Appropriate Engineering Controls

Sufficient mechanical ventilation to maintain exposures below the TLV. Under normal conditions of use, general ventilation should be satisfactory. Local ventilation is recommended if the product is misted or used in a confined space or if the TLV is exceeded. Make up air should always be supplied to balance air exhausted. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.
Suitable materials are: neoprene rubber, nitrile rubber.

Respiratory Protection

Not normally required if product is used as directed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear amber liquid.
Odour	Ammonia-like
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	Not available (melting)
Initial Boiling Point/Range	Not available
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	0.922 at 15 °C
Solubility	Partial in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	11.05 centistokes at 40°C (kinematic)
Other Information	
VOC %	Not available
Flame projection	> 100 cm
NFPA Classification	Aerosol, level 2

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

High temperatures. Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid).

Hazardous Decomposition Products

Carbon oxides. And other unidentified organic compounds.

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SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

Likely Routes of Exposure

Inhalation;
Skin contact;
Eye contact;
Ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
1,3,5-Trimethylbenzene	24000 mg/m ³ (rat) (4-hour exposure)	Not available	Not available
2,2-iminodiethanol	> 0.4 ppm (rat) (6-hour)	680 mg/kg (female rat)	8180 mg/kg (rabbit)
2-Butoxyethanol	450 ppm (female rat) (4-hour exposure)	530 mg/kg (female rat)	400-500 mg/kg (rabbit)
Oleic acid	Not available	> 19200 mg/kg (male rat)	Not available
Xylene (mixed isomers)	6350 ppm (male rat) (4-hour exposure)	3523 mg/kg (rat)	> 1700 mg/kg (rabbit)
Diethylbenzene	> 30000 mg/m ³ (mouse)	1200 mg/kg (rat)	> 5000 mg/kg (rabbit)
Distillates (petroleum), hydrotreated heavy naphthenic	2180 mg/m ³ (rat) (4-hour exposure)	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)
Hydrotreated light naphthenic distillate	2180 mg/m ³ (rat)	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)
Solvent naphthat (petroleum), light aromatic	> 14.4 mg/L (rat) (6-hour)	8400 mg/kg (rat)	> 3160 mg/kg (rabbit)
Amides, coco, Ú, Ú-bis(hydroxyethyl)	Not available	12200 mg/kg (rat)	> 2000 mg/kg (rabbit)
1,2,4-Trimethylbenzene	18000 mg/m ³ (rat) (4-hour exposure)	5000 mg/kg (rat)	Not available
Cumene	39 mg/L (rat) (4-hour exposure)	1400 mg/kg (rat)	10627 mg/kg (rabbit)

Skin Corrosion/Irritation

There is limited evidence of moderate or severe irritation.

Serious Eye Damage/Irritation

There is limited evidence of serious eye irritation. Symptoms include sore, red eyes, and tearing.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

At high concentrations causes nose and throat irritation, depression of the central nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion.

Skin Absorption

No information was located.

Ingestion

If large amounts are swallowed can cause effects as described for inhalation. Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

Aspiration Hazard

May cause lung damage if aspirated based on physical properties (e.g. kinematic viscosity) and chemical family (hydrocarbon).

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STOT (Specific Target Organ Toxicity) - Repeated Exposure

Conclusions cannot be drawn from the limited studies available.

Respiratory and/or Skin Sensitization

No information was located for respiratory sensitization.

No information was located for skin sensitization.

Carcinogenicity

Chemical Name	ACGIH®	IARC	NTP	OSHA
2,2-iminodiethanol	A3	Group 2B	Not Listed	Not Listed
2-Butoxyethanol	A3	Group 3	Not Listed	Not Listed
Xylene (mixed isomers)	A4	Group 3	Not Listed	Not Listed
Solvent naphthat (petroleum), light aromatic	Not Listed	Not evaluated	Not Listed	Not Listed
Petroleum gases, liquefied	Not Listed	Not Listed	Not Listed	Not Listed
Cumene	Not designated	Group 2B	Not Listed	Not Listed

Contains. (2,2-iminodiethanol) which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) contains. (Cumene) which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans).

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists. A3 = Animal carcinogen. A4 = Not classifiable as a human carcinogen.

IARC = International Agency for Research on Cancer. Group 2B = Possibly carcinogenic to humans. Group 3 = Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity

Development of Offspring

(Xylene (mixed isomers)) may cause effects on the unborn child based on limited evidence.

No information was located for: Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS.

This section is not required by OSHA HCS 2012.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Empty containers retain product residue. Follow label warnings even if container appears to be empty. Store product for disposal as described under Storage in Section 7 of this safety data sheet. The container for this product can present explosion or fire hazards, even when emptied. Do not cut, puncture, or weld on or near this container. Dispose of in accordance with municipal, provincial/state or federal regulations.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1950	Aerosols	2.1	---
IMDG (Marine)	UN1950	Aerosols	2.1	---
IATA (Air)	UN1950	Aerosols, flammable	2.1	---

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

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Not applicable

Emergency Response Guide No. 126 EmS F-D, S-U

Other Information ICAO/IATA PI Y203/203
Product may ship as LTD QTY if TDG, ICAO/IATA or IMDG Limited Quantity provisions are met.

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

CEPA - National Pollutant Release Inventory (NPRI)

(2,2-iminodiethanol) Part 1A.

(2-Butoxyethanol) Part 5.

(Xylene (mixed isomers)) Part 1A.

(d-Limonene) Part 5.

(Solvent naphthat (petroleum), light aromatic) Part 5.

(1,2,4-Trimethylbenzene) Part 1A.

(Cumene) Part 1A.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

CERCLA. (2,2-iminodiethanol). (Xylene (mixed isomers)). (Ammonium hydroxide). (Cumene)

SARA Title III - Section 302:

SARA Title III - Section 313. (2,2-iminodiethanol). (Xylene (mixed isomers)). (1,2,4-Trimethylbenzene). (Cumene)

California Proposition 65: Not applicable.

Massachusetts Right To Know: Not applicable.

New Jersey Right To Know. (Methyl isobutyl carbinol). (2,2-iminodiethanol). (2-Butoxyethanol). (Calcium hydroxide). (Xylene (mixed isomers)). (Ammonium hydroxide). (Diethylbenzene). (Glycerine). (Petroleum gases, liquefied). (1,2,4-Trimethylbenzene). (Cumene)

Pennsylvania Right To Know. (Methyl isobutyl carbinol). (2,2-iminodiethanol). (2-Butoxyethanol). (Oleic acid).

(Calcium hydroxide). (Xylene (mixed isomers)). (Ammonium hydroxide). (Diethylbenzene). (Glycerine). (Petroleum gases, liquefied). (1,2,4-Trimethylbenzene). (Cumene)

SECTION 16. OTHER INFORMATION

NFPA Rating **Health - 2** **Flammability - 3** **Instability - 0**
Based on Solvent naphthat (petroleum), light aromatic

SDS Prepared By Regulatory Compliance

Phone No. 905.847.0222

Date of Preparation November 03, 2015

Key to Abbreviations ACGIH® = American Conference of Governmental Hygienists
CANUTEC = Canadian Transport Emergency Centre
CAS = Chemical Abstract Service
CCOHS = Canadian Centre for Occupational Health & Safety
CNS = Central nervous system
GESTIS = GESTIS Substance Database
HSDB® = Hazardous Substances Data Bank
IARC = International Agency for Research on Cancer
ICAO = International Civil Aviation Organization

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IMDG = International Maritime Dangerous Goods Code
LC = Lethal concentration
LC = Lethal dose
NFPA = National Fire Protection Association
NTP = National Toxicology Program
OSHA = US Occupational Safety and Health Administration
PPM = Parts per million
RTECS® = Registry of Toxic Effects of Chemical Substances
STEL = Short term exposure limit
TDG = Transportation of Dangerous Goods Regulations (Canada)
TWA = Time weighted average

References

Material safety data sheet from manufacturer.
CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).
HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS).
Registry of Toxic Effects of Chemical Substances (RTECS®) database. Accelrys, Inc. Available from Canadian Centre for Occupational Health and Safety (CCOHS).
ECHA - European Chemical Agency, Classification and Labelling Inventory
GESTIS Substance Database
OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.

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