Issuing date 11-Nov-2015 Revision Date 25-Nov-2019 Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name LAMI-LUBE I

Recommended use of the chemical

and restrictions on use

Product code F04202

Product Type Extremely Flammable Aerosol

Synonyms None

Supplier's details

Recommended Use Lubricant.

Uses advised against No information available

Manufactured For: Manufacturer

Lami-Lube Products

9435 Old Airport Highway

Monclova, OH 43542-9557

Phone: (419) 866-1845

American Jetway Corporation
34136 Myrtle Street

Wayne, MI 48184-0126

Phone: (734) 721-5930

Emergency telephone number

Chemical Emergency Phone CHEMTREC: 1-800-262-8200 ID 1195 (UNITED STATES)

Number

2. HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Reproductive Toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2
Aspiration toxicity	Category 1
Flammable Aerosols	Category 1
Gases under pressure	Compressed Gas

GHS Label elements, including precautionary statements

Emergency Overview

DANGER

Hazard Statements

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child

May cause respiratory irritation. May cause drowsiness or dizziness.

May cause damage to organs (Eyes, Skin, Respiratory System, Central Nervous System, and Peripheral Nervous System)

through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

Extremely Flammable Aerosol

Contains gas under pressure; may explode if heated



Appearance Hazy to Clear

Physical state Aerosol

Odor Solvent

Precautionary Statements - Prevention

Obtain special instructions before use.

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

Wear protective gloves, protective clothing, eye protection, face protection.

Wash face, hands and any exposed skin thoroughly after handling.

Do not breathe dust, fume, gas, mist, vapors, spray.

Use only outdoors or in a well-ventilated area.

Keep away from heat, sparks, open flames, 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.

Precautionary Statements - Response

If exposed or concerned: Get medical advice, attention.

Specific treatment (see first aid on this label).

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

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice, attention.

Take off contaminated clothing and wash it before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If exposed: call a POISON CENTER or doctor/physician.

IF SWALLOWED: Immediately call a POISON CENTER, doctor, physician.

Do NOT induce vomiting.

Precautionary Statements - Storage

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

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

Precautionary Statements - Disposal

Dispose of contents, container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC)

None

Other information

0% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
ACETONE	67-64-1	40-50
PROPANE/ISOBUTANE/N-BUTANE	68476-86-8	20-30
HEXANE	110-54-3	10-20
ISOHEXANE	107-83-5	1-10
3-METHYLPENTANE	96-14-0	1-10
2,3-DIMETHYLBUTANE	79-29-8	1-10
2,2-DIMETHYLBUTANE	75-83-2	1-10
N-HEXANE	110-54-3	<1

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice Avoid contact with eyes, skin, and clothing. Avoid breathing vapors, mist, or gas.

Eye contact Immediately flush with plenty of water for at least 15 minutes. After initial flushing, remove

any contact lenses and continue flushing. Call a physician if irritation persists.

Skin contact Wash off with soap and plenty of water. Remove and wash contaminated clothing before

re-use. If skin irritation or rash occurs, call a physician.

Inhalation Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped,

contact emergency medical services immediately.

Ingestion Call a physician or Poison Control Center immediately. Do NOT induce vomiting. Never

give anything by mouth to an unconscious person. Risk of product entering the lungs on

vomiting after ingestion.

Protection of First-aiders Remove all sources of ignition.

Most important symptoms/effects, acute and delayed

Main Symptoms Causes skin and serious eye irritation. Suspected of damaging fertility or the unborn child.

May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters

airways.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water fog.Dry chemical. Foam.Carbon dioxide (CO2). Cool containers/tanks with water spray.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire. Keep away from sources of ignition - No smoking.

Specific hazards arising from the chemical

Extremely Flammable / Flammable. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.

Hazardous Combustion

Products

Acrid smoke/fumes. Carbon oxides, Hydrocarbons, Fumes. Sulfur oxides.

Explosion Data

Sensitivity to Mechanical Impact none. Sensitivity to Static Discharge Yes.

Protective Equipment and Precautions for Firefighters

In the event of fire and/or explosion do not breathe fumes. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use shielding to protect fire-fighters from bursting containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use with adequate ventiliation to keep the exposure levels below the OELS. Follow safe

handling advice and personal protective equipment recommendations.

Environmental precautions

Environmental precautions Vapors can accumulate in low areas. Report spills as required by local and federal

regulations. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

Methods and materials for containment and cleaning up

Methods for ContainmentAbsorb with earth, sand or other non-combustible material and transfer to containers for

later disposal. Prevent further leakage or spillage if safe to do so. Do not allow material to

contaminate ground water system. Prevent product from entering drains.

Methods for cleaning up Soak up with inert absorbent material. Contain liquid and collect with an inter,

non-combustible material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly . After cleaning, flush away traces with water. Prevent product from entering drains. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Keep away

from open flames, hot surfaces and sources of ignition. Contents under pressure. Do not puncture or incinerate cans. Handle in accordance with good industrial hygiene and safety

practice. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces, and sources of ignition. Keep in properly labeled containers. Keep out

of the reach of children. Store locked up.

Incompatible products Strong acids, alkalis, oxidizing agents.

Aerosol Level 3

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ACETONE	STEL: 500 ppm	TWA: 1000 ppm	IDLH: 2500 ppm
67-64-1	TWA: 250 ppm	TWA: 2400 mg/m ³	TWA: 250 ppm
		(vacated) TWA: 750 ppm	TWA: 590 mg/m ³
		(vacated) TWA: 1800 mg/m ³	
		(vacated) STEL: 2400 mg/m ³	
		The acetone STEL does not	
		apply to the cellulose acetate	
		fiber industry. It is in effect for all	
		other sectors.	
		(vacated) STEL: 1000 ppm	
PROPANE/ISOBUTANE/N-BUTANE	74-98-6: TWA: 1000 ppm	74-98-6:TWA: 1000 ppm	74-98-6:IDLH: 2100 ppm
68476-86-8	106-97-8: STEL: 1000 ppm	TWA: 1800 mg/m ³	TWA: 1000 ppm
	75-28-5: STEL: 1000 ppm	(vacated) TWA: 1000 ppm	TWA: 1800 mg/m ³
		(vacated) TWA: 1800 mg/m ³	106-97-8:TWA: 800 ppm
		106-97-8: (vacated) TWA: 800	TWA: 1900 mg/m ³
		ppm	75-28-5:TWA: 800 ppm
		(vacated) TWA: 1900 mg/m ³	TWA: 1900 mg/m ³
HEXANE	TWA: 50 ppm	TWA: 500 ppm	IDLH: 1100 ppm
110-54-3	Skin - potential significant	TWA: 1800 mg/m ³	TWA: 50 ppm
	contribution to overall exposure	(vacated) TWA: 50 ppm	TWA: 180 mg/m ³
	by the cutaneous route	(vacated) TWA: 180 mg/m ³	
ISOHEXANE	STEL: 1000 ppm	-	-
107-83-5	TWA: 500 ppm		
3-METHYLPENTANE	STEL: 1000 ppm	-	-
96-14-0	TWA: 500 ppm		
2,3-DIMETHYLBUTANE	STEL: 1000 ppm	-	-
79-29-8	TWA: 500 ppm		
2,2-DIMETHYLBUTANE	STEL: 1000 ppm	-	-
75-83-2	TWA: 500 ppm		
N-HEXANE	TWA: 50 ppm	TWA: 500 ppm	IDLH: 1100 ppm
110-54-3	Skin - potential significant	TWA: 1800 mg/m ³	TWA: 50 ppm
	contribution to overall exposure	(vacated) TWA: 50 ppm	TWA: 180 mg/m ³
	by the cutaneous route	(vacated) TWA: 180 mg/m ³	

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration) NIOSH IDLH: Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Exposure controls

Engineering Measures Ventilation systems. Use adequate ventilation to keep the exposure levels below the

occupational exposure limits. Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Safety glasses with side-shields. Tightly fitting safety goggles. **Eye/Face Protection**

Skin and body protection Chemical resistant apron. Protective gloves.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved Respiratory protection

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Handle in accordance with good industrial hygiene and safety practice. Hygiene measures

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state Aerosol **Appearance**

Hazy to Clear Odor Solvent

Color Slightly Hazy **Odor Threshold**

Remarks • Methods Property Values

Hq No information available No information available Melting/freezing point

Boiling point/boiling range

Flash Point -104.4 °C / -156 °F Based on propellant

Evaporation rate No information available Flammability (solid, gas) No information available

Flammability Limits in Air upper flammability limit lower flammability limit

Vapor pressure Vapor density

Specific Gravity 0.708 Water solubility Negligible

Partition coefficient: n-octanol/water

No information available **Autoignition temperature**

Decomposition temperature

No information available **Viscosity**

Explosive properties

Other information

48.68 VOC Content(%) **MIR Value** 0.73

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

Strong acids, alkalis, oxidizing agents.

Hazardous Decomposition Products

Carbon oxides, Hydrocarbons, Fumes.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation May cause respiratory irritation, May cause drowsiness or dizziness.

Eve contact Causes serious eye irritation.

Causes skin irritation. Skin contact

Ingestion May be fatal if swallowed and enters airways.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
ACETONE	= 5800 mg/kg (Rat)	> 15700 mg/kg (Rabbit)	= 50100 mg/m ³ (Rat) 8 h
67-64-1			
HEXANE	= 25 g/kg (Rat)	= 3000 mg/kg (Rabbit)	= 48000 ppm (Rat) 4 h
110-54-3			
N-HEXANE	= 25 g/kg (Rat)	= 3000 mg/kg (Rabbit)	= 48000 ppm (Rat) 4 h
110-54-3			

Information on toxicological effects

Symptoms Causes skin and serious eye irritation. Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters

airways.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Irritating to skin. Eye damage/irritation Irritating to eves. Sensitization Known skin sensitizer. Germ cell mutagenicity Not a germ cell mutagen.

Carcinogenicity There are no known carcinogenic chemicals in this product.

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

Reproductive toxicity Specific target organ systemic

This product contains a chemical(s) which is a known or suspected reproductive hazard .

May cause respiratory irritation. May cause drowsiness or dizziness.

toxicity (single exposure) Specific target organ systemic toxicity (repeated exposure)

May cause damage to Target Organs listed below through prolonged or repeated

exposure.

Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and

potential cardiac arrest.

Target Organ Effects Neurological effects

Chronic toxicity

Eyes, Skin, Respiratory System, Central Nervous System, and Peripheral Nervous System. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or

May be fatal if swallowed and enters airways. Aspiration hazard

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 24161 mg/kg
ATEmix (dermal) 14904 mg/kg
ATEmix (inhalation-gas) 87069 mg/l
ATEmix (inhalation-dust/mist) 68.2 mg/l
ATEmix (inhalation-vapor) 637 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
ACETONE	-	4.74 - 6.33 mL/L LC50	-	10294 - 17704 mg/L EC50
67-64-1		Oncorhynchus mykiss 96h		Daphnia magna 48h Static
		6210 - 8120 mg/L LC50		12600 - 12700 mg/L EC50
		Pimephales promelas 96h		Daphnia magna 48h
		static 8300 mg/L LC50		
		Lepomis macrochirus 96h		
HEXANE	-	2.1 - 2.98 mg/L LC50	-	-
110-54-3		Pimephales promelas 96h		
		flow-through		
N-HEXANE	-	2.1 - 2.98 mg/L LC50	-	-
110-54-3		Pimephales promelas 96h		
		flow-through		

Persistence and degradability

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Bioaccumulation

Chemical Name	log Pow
ACETONE	-0.24
67-64-1	
PROPANE/ISOBUTANE/N-BUTANE	2.8
68476-86-8	
2,2-DIMETHYLBUTANE	3.8
75-83-2	

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261). Dispose of in accordance with federal, state, and local regulations. Dispose of in accordance with local regulations. Dispose of in accordance with federal, state, and local

regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal. Pressurized container: Do not pierce or burn, even after use. Do not re-use empty

containers.

14. TRANSPORT INFORMATION

DOT Ground CONSUMER COMMODITY ORM-D

or

LIMITED QUANTITY

IATA UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD.QTY.

IMDG UN1950, AEROSOLS, 2.1, LTD.QTY

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
ACETONE	Х	X	X	X	Х	X	X	Х
PROPANE/ISOBUTA NE/N-BUTANE	Х	Х	X	Not listed	Х	Х	Х	Х
HEXANE	Х	X	X	X	X	Х	X	X
ISOHEXANE	Х	Х	Х	Х	Х	X	Х	Х
3-METHYLPENTANE	X	Х	Х	Х	X	X	Х	Х
2,3-DIMETHYLBUTAN E	Х	Х	X	Χ	Х	Х	X	Х
2,2-DIMETHYLBUTAN E	Х	Х	X	Χ	Х	Х	Х	Х
N-HEXANE	Х	Х	Х	Х	Х	Х	Х	Х

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

CHINA - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does contain a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %*	SARA 313 - Threshold Values %
HEXANE - 110-54-3	110-54-3	10-20	1.0
N-HEXANE - 110-54-3	110-54-3	<1	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Star Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does contain substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
ACETONE	5000 lb		RQ 5000 lb final RQ
67-64-1			RQ 2270 kg final RQ
HEXANE	5000 lb		RQ 5000 lb final RQ
110-54-3			RQ 2270 kg final RQ
N-HEXANE	5000 lb		RQ 5000 lb final RQ
110-54-3			RQ 2270 kg final RQ

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:



This product can expose you to chemicals including those listed below, which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Chemical Name	California Prop. 65
HEXANE - 110-54-3	Developmental, Reproductive (Male), 10-20%
N-HEXANE - 110-54-3	Developmental, Reproductive (Male) <1%

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
ACETONE	X	X	X
67-64-1			
HEXANE	X	X	X
110-54-3			
ISOHEXANE	X	X	X
107-83-5			
3-METHYLPENTANE		X	X
96-14-0			
2,3-DIMETHYLBUTANE	X	X	X
79-29-8			
2,2-DIMETHYLBUTANE	X	X	X
75-83-2			
N-HEXANE	X	X	X
110-54-3			

EPA Pesticide Registration Number Not applicable

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

16. OTHER INFORMATION

NFPA **Health Hazard** 2 Flammability 4 Instability 0 Physical and chemical

hazards -

HMIS Health Hazard 2* Flammability 4 Physical Hazard 1 Personal protection B Chronic Hazard Star Legend

Chronic Health Star Hazard Repeated or prolonged exposure may cause central nervous system

damage

Prepared By American Jetway Corporation

> 34136 Myrtle Street Wayne, MI 48184-0126

11-Nov-2015 Issuing date 25-Nov-2019 **Revision Date**

Revision Note

1 (M)SDS sections updated

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet