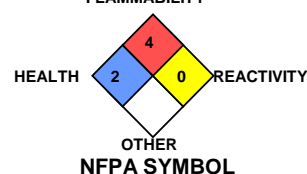


Health	2
Flammability	4
Reactivity	0
PPI	B

# MATERIAL SAFETY DATA SHEET

## 12/34 - Aerosol

FLAMMABILITY



### HMIS SYMBOL

### SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: **12/34 Aerosol**  
 Chemical Family: Mixture  
 Use: Penetrant and Lubricant  
 Manufacturer/Supplier: Jet-Lube of Canada Ltd.  
 3820 – 97 Street NW  
 Edmonton, Alberta  
 Canada T6E 5S8  
 Phone: (780) 463-7441 Fax: (780) 463-7454  
 CCOHS: 1-800-668-4284

#### Emergency:

CANUTEC PH: (613) 996-6666 Cell: \*666 TTY/TDD: 1-888-675-6863

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	Isobutane	Propane	Stoddard Solvent	Light Distillate Hydro Treated
CAS NO.	75-28-5	74-98-6	8052-41-3	64742-47-8
WT %	10 – 30	5 - 10	10 - 30	40 – 90
OSHA PEL	Not Available	1000 ppm	Not Available	Not Available
ACGIH TLV	1000 ppm	Not Available	100 ppm	200 mg/m <sup>3</sup>
LD50	Not Available	>5000 mg/kg Rabbit-Dermal	5g/kg Oral-Rat	>5g/kg Oral-Rat
LC50	142,500 mg/m <sup>3</sup> (Rat, Inhalation)	Not Available	5500 mg/m <sup>3</sup> Inhal-Rat	Not Available

### SECTION 3 - HAZARDS IDENTIFICATION

Route of Entry: Eyes, Inhalation, Ingestion, Skin  
 Eyes: Eye irritation.  
 Inhalation: Vapours or mist can cause irritation and cause headaches, dizziness and fatigue.  
 Ingestion: Standard toxicity is low  
 Skin: May cause irritation after prolonged skin exposure, especially for persons with hyper sensitivity.

### SECTION 4 - FIRST AID MEASURES

Eyes: Flush with water until all residual material is gone 15min. If irritation persists, seek medical help.  
 Ingestion: Do not induce vomiting. Wash out mouth. Contact a physician immediately.  
 Skin: Remove by wiping or with a waterless hand cleaner, followed by washing with soap and water.  
 Inhalation: Clear air passage. If breathing difficulty continues seek medical help.

### SECTION 5 - FIRE FIGHTING MEASURES

Flammability: Extremely Flammable  
 Sources of Ignition: Excessive Heat, Sparks and Open Flame  
 Extinguishing Media: Use dry chemicals, foam, halon, CO<sub>2</sub>  
 Flash Point (OC): 38°C (100°F)  
 Flammable Limits: LFL/LEL – 0.9% UFL/UEL – 6%  
 Auto-ignition Temp: 232°C (450°F)  
 Hazardous Combustion Products: Oxides of carbon, smoke and irritating vapors as products of incomplete combustion.  
 Explosion Data: Sensitivity to Impact (Not Available)  
 Sensitivity to Static Discharge (Not Available)  
 Aerosol Flame Projection: >45cm  
 Flashback: Yes

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spillage: Scoop up excess, then wipes down the affected area and pick up residue with diatomaceous earth to avoid a walking hazard.  
 Environmental Precautions: Do not allow product to enter into drains.

### SECTION 7 - HANDLING AND STORAGE

Handling Procedures: Use in well ventilated area. Do not pressurize, cut, heat or weld empty containers.  
 Storage Requirements: Store in a cool, well ventilated place.

### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:	ACGIH TLV	OSHA PEL
Isobutane	1000ppm	Not Available
Propane	Not Available	1000ppm
Stoddard Solvent	100ppm	Not Available
Light Distillates (Hydro-Treated)	200 mg/m <sup>3</sup>	Not Available

Engineering Controls: If user's operation generates vapors or mists, use ventilation to keep exposure to airborne contaminants below the exposure limit. Make up air should always be supplied to balance air removed by exhaust ventilation. Ensure eyewash station and safety shower are close to work station.

### Personal Protective Equipment (PPE's):

Respiratory Protection: Breathing apparatus required when used without ventilation.  
 Hand Protection: Protective gloves for hypersensitive persons.  
 Eye Protection: Protective glasses  
 Body Protection: Protective overalls.

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Odor/Appearance:	Petroleum/Pale Yellow	Physical State:	Aerosol Spray
Odor Threshold:	Not Available	Specific Gravity (Typical):	0.80
Vapor Pressure:	0.53-0.6 kPa	Vapor Density:	5 (Air = 1)
Boiling Point:	150°C (300°F)	Freezing Point:	-70°C (-94°F)
Evaporation Rate (Butyl Acetate = 1.0):	0.1 %VOC		Not Available
Coefficient of Water/Oil Distribution:	Not Available	pH:	Neutral

### SECTION 10 - STABILITY AND REACTIVITY

Stability: Chemically stable under normal conditions.  
 Conditions to Avoid: Powerful sources of ignition and extreme temperatures.  
 Materials to Avoid: Strong oxidizing agents.  
 Hazardous Decomposition Products: Hydrocarbon fumes and smoke. Carbon Monoxide where combustion is incomplete.

### SECTION 11 - TOXICOLOGICAL INFORMATION

Effects of Short-Term (Acute) Exposure: Short term exposure has shown depression of the central nervous system and irritation of the eyes, nose and throat.  
 Effects of Long-Term (Chronic) Exposure: Long term dermal application may produce possible skin irritation. Elevated temperatures or mechanical action may form vapors or fumes. Inhalation of oil mists or vapors may cause irritation of the upper respiratory tract.  
 Irritancy of Product: Skin and Eye Irritant.  
 Skin Sensitization: Not Available  
 Respiratory Sensitization: Not Available  
 Carcinogenicity: Aliphatic petroleum distillates contains trace amount of Benzene – Carcinogenic risk to humans based on the evaluation of IARC working group.  
 IRAC: Not Available ACGIH: Not Available  
 Teratogenicity, Embryotoxicity and/or Fetotoxicity: Not Available  
 Mutagenicity: Benzene - may cause heritable genetic damage.  
 Name of Synergistic Products/Effects: Not Available

### SECTION 12 - ECOLOGICAL INFORMATION

Environmental: Not Available

### SECTION 13 - DISPOSAL CONSIDERATIONS

Consult federal, provincial and local regulations for disposal of petroleum products. Do not incinerate.

### SECTION 14 - TRANSPORT INFORMATION

TDG (Canada): The mixture is not specifically listed in the Canadian Transportation of Dangerous Goods regulations.  
 Shipping Name: AEROSOLS, Flammable  
 UN No.: UN 1950  
 Packing Group: None  
 Classification: 2.1, Flammable Gases  
 Labeling Requirements: Limited Quantity labels for containment less than LQI of 6L net contents per containment. Class 2.1 label if >6L net contents per containment.  
 Placard Requirements: Limited Quantities – None Required  
 Large Quantities – Class 2.1

### SECTION 15 - REGULATORY INFORMATION

WHMIS: A, B5, D2B  
 DSL: All components listed  
 CPR Compliance: This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by those regulations.

### SECTION 16 - OTHER INFORMATION

CPR - Controlled Product Regulations  
 DSL - Domestic Substance List

As of issue date, the information contained herein is accurate and reliable to the best of Jet-Lube of Canada Ltd.'s knowledge. Jet-Lube of Canada Ltd. does not warrant or guarantee its accuracy or reliability and shall not be liable for any loss or damage arising out of the use thereof. It is the users' responsibility to satisfy themselves that the information offered for their consideration is suitable for their particular use.

Prepared by: **Jet-Lube of Canada Ltd. – Laboratory**  
 Last Date of Revision: **August 27, 2014**