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Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name	ZEP 70	
Product use	Aerosol Penetrating Lubricant	
Product code	0030	
Date of issue	07/14/15	Supersedes 08/08/12

Emergency Telephone Numbers

For MSDS Information:
Technical Services Group
Telephone (780) 453-8100
(Business Hours 8:00am - 5:00pm)

For Medical or Transportation Emergency
CANUTEC (24 Hours)
(613) 996-6666 - Call Collect

Prepared By
Technical Services Group
11627 178th Street
Edmonton, Alberta T5S 1N6

Section 2. Hazards Identification

Emergency overview

DANGER

FLAMMABLE AEROSOL. CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

CONTENTS UNDER PRESSURE.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects **Routes of Entry** Dermal contact. Eye contact. Inhalation.

Eyes Causes eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Skin May cause skin irritation. May cause allergic reactions in certain individuals. Skin inflammation is characterized by itching, scaling, or reddening.

Inhalation Avoid breathing vapors, spray or mists. Over-exposure by inhalation may cause respiratory irritation.

Ingestion May be harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.

Chronic effects Contains material which may cause damage to the following organs: heart, central nervous system (CNS). Prolonged or repeated contact may dry skin and cause irritation. Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
ALKYL (C16-C18) METHYL ESTERS	67784-80-9	60 - 100
HYDROCARBON PROPELLANT; blend of propane and n-butane	74-98-6; 106-97-8	10 - 30
RAW LINSEED OIL; flaxseed oil	8001-26-1	1 - 5

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.

Skin Contact Flush affected skin with plenty of water. Get medical attention if irritation develops.

Inhalation Move exposed person to fresh air. If irritation persists, get medical attention.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Not available.
Flammable Limits	Not available.
Flammability	FLAMMABLE AEROSOL.(CSMA Method)
Auto-ignition Temperature	
Fire-Fighting Procedures	Use an extinguishing agent suitable for the surrounding fire. Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion. Fire-fighters should wear appropriate protective equipment.
Fire hazard	Flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard. Rags, steel wool or other wastes soaked with product may spontaneously catch fire if improperly discarded.

Products of Combustion	Decomposition products may include the following materials: carbon dioxide carbon monoxide
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Explosion hazard**Section 6. Accidental Release Measures**

Spill Clean up Large spills are unlikely due to packaging.

Section 7. Handling and Storage

Handling	Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Observe label precautions. Wash contaminated clothing before reusing. Wash thoroughly after handling.
Storage	CONTENTS UNDER PRESSURE. Eliminate all ignition sources. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Rags, steel wool or other wastes soaked with product may spontaneously catch fire if improperly discarded. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection**Product name**

propane

Exposure limits

CA Alberta Provincial (Canada, 4/2009).
8 hrs OEL: 1000 ppm 8 hour(s).
CA British Columbia Provincial (Canada, 9/2010).
TWA: 1000 ppm 8 hour(s).
CA Quebec Provincial (Canada, 6/2008).
TWAEV: 1000 ppm 8 hour(s).
TWAEV: 1800 mg/m³ 8 hour(s).
CA Ontario Provincial (Canada, 7/2010).
TWA: 1000 ppm 8 hour(s).

CA Alberta Provincial (Canada, 4/2009).
8 hrs OEL: 1000 ppm 8 hour(s).
CA British Columbia Provincial (Canada, 9/2010).
TWA: 600 ppm 8 hour(s).
STEL: 750 ppm 15 minute(s).
CA Quebec Provincial (Canada, 6/2008).
TWAEV: 800 ppm 8 hour(s).
TWAEV: 1900 mg/m³ 8 hour(s).
CA Ontario Provincial (Canada, 7/2010).
TWA: 800 ppm 8 hour(s).

Butane

**Personal Protective Equipment (PPE)**

Eyes Safety glasses.

Hands and Body Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves.

Respiratory Use with adequate ventilation.

Section 9. Physical and Chemical Properties

Physical State Liquid. [Aerosol.]

Color Amber. Brown.

pH Not applicable.

Odor Pleasant. Cherry

Boiling Point >315°C (>599°F)

Vapor Pressure Not available.

Specific Gravity 0.891

Vapor Density Not available.

Solubility Emulsifies in water.

Evaporation Rate Not available.

Freezing Point

VOC (Consumer) 15.1 % (w/w)

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive or incompatible with the following materials: oxidizing materials and acids. Avoid contact with strong oxidizers, excessive heat, sparks or open flame.
Hazardous Polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Carcinogenicity Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Acute Toxicity

Soybean oil, Me ester	LD50 Dermal	Rabbit	>15000 mg/kg	-
	LD50 Oral	Rat	>15000 mg/kg	-
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m ³	4 hours

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity

Not available.

Section 13. Disposal Considerations**Waste Information**

Waste must be disposed of in accordance with applicable regulations. Consult your local or regional authorities for additional information.

Waste Stream Classification: Non-hazardous waste
Origin: RCRA waste.

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
TDG Classification	1950	Aerosols, flammable (propane)	2.1			Explosive Limit and Limited Quantity Index 1
IMDG Class	Not determined.					

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment. Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to TDG regulations.

PG* : Packing group

Section 15. Regulatory Information**Canada**

WHMIS (Canada) Class A: Compressed gas.
Class B-5: Flammable aerosol.
Class D-2B: Material causing other toxic effects (Toxic).

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.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.