



# 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  
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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**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).**

TWA-EV: 1000 ppm 8 hour(s).

TWA-EV: 1800 mg/m<sup>3</sup> 8 hour(s).**CA Ontario Provincial (Canada, 7/2010).**

TWA: 1000 ppm 8 hour(s).

Butane

**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).**

TWA-EV: 800 ppm 8 hour(s).

TWA-EV: 1900 mg/m<sup>3</sup> 8 hour(s).**CA Ontario Provincial (Canada, 7/2010).**

TWA: 800 ppm 8 hour(s).

**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.]**pH** Not applicable.**Boiling Point** >315°C (>599°F)**Specific Gravity** 0.891**Solubility** Emulsifies in water.**Freezing Point****Color** Amber. Brown.**Odor** Pleasant. Cherry**Vapor Pressure** Not available.**Vapor Density** Not available.**Evaporation Rate** Not available.**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/m3 | 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                                 |
|---------------------------|-----------------|-------------------------------|---------|-----|---|--|
| <b>TDG Classification</b> | 1950            | Aerosols, flammable (propane) | 2.1     |     |  | <b>Explosive Limit and Limited Quantity Index</b><br>1 |
| <b>IMDG Class</b>         | 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.*