



# Material Safety Data Sheet

## Section 1. Chemical Product and Company Identification

**Product name** ZEP 40  
**Product use** Aerosol Cleaner  
**Product code** 0144  
**Date of issue** 09/16/14 **Supersedes** 11/30/11

### 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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## Section 2. Hazards Identification

### Emergency overview

**WARNING !**

CAUSES EYE 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. Inhalation.

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

**Skin** May cause skin irritation. Product may be dermal absorbed. 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

Prolonged or repeated contact may dry skin and cause irritation. Overexposure of this product by inhalation or absorption can produce central nervous system depression resulting in headache, nausea and/or dizziness. Contains material which may cause damage to the following organs: blood, kidneys, liver, upper respiratory tract, skin, eyes, central nervous system (CNS), ears.

**Additional Information:** See Toxicological Information (Section 11)

## Section 3. Composition/Information on Ingredients

ETHANOL; ethyl alcohol; grain alcohol	64-17-5	10 - 30
HYDROCARBON PROPELLANT; blend of propane & isobutane	75-28-5; 74-98-6	3 - 7
ISOPROPYL ALCOHOL; ipa; dimethylcarbinol; 2-propanol	67-63-0	1 - 5
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	111-76-2	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. If affected person is conscious, give plenty of water to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Section 5. Fire Fighting Measures**

<b>Flash Point</b>	Closed cup: 28.3°C (82.9°F)
<b>Flammable Limits</b>	Not available.
<b>Flammability</b>	Non-flammable. (CSMA Method)
<b>Auto-ignition Temperature</b>	
<b>Fire-Fighting Procedures</b>	Use an extinguishing agent suitable for the surrounding fire. Cool closed containers exposed to fire with water. Fire-fighters should wear appropriate protective equipment.
<b>Fire hazard</b>	In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Bursting aerosol containers may be propelled from a fire at high speed.
<b>Products of Combustion</b>	carbon oxides (CO, CO <sub>2</sub> ) and other unidentified organic compounds
<b>Explosion hazard</b>	

**Section 6. Accidental Release Measures**

**Spill Clean up** Large spills are unlikely due to packaging.

**Section 7. Handling and Storage**

<b>Handling</b>	Put on appropriate personal protective equipment (see section 8). Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. 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.
<b>Storage</b>	CONTENTS UNDER PRESSURE. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Keep out of the reach of children.

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

Ethanol

Propellant; Blend of Isobutane, Propane and n-Butane

Ethylene Glycol Monobutyl Ether

Isopropyl Alcohol

**Exposure limits****ACGIH TLV / OSHA PEL (United States).**

TWA: 1000 ppm 8 hour(s).

**ACGIH TLV / OSHA PEL (United States). Notes: Propane**

TWA: 1000 ppm 8 hour(s).

**ACGIH TLV (United States).**

TWA: 20 ppm 8 hour(s). Form:

**OSHA PEL (United States). Skin**

TWA: 50 ppm 8 hour(s). Form:

**ACGIH TLV (United States).**

TWA: 200 ppm 8 hour(s).

**OSHA PEL (United States).**

TWA: 400 ppm 8 hour(s).

**ACGIH/OSHA (United States).**

STEL: 400 ppm 15 minute(s).

**Personal Protective Equipment (PPE)**

<b>Eyes</b>	Safety glasses.	
<b>Hands and Body</b>	For prolonged or repeated handling, use gloves. Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves.	
<b>Respiratory</b>	Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.	

**Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Liquid. [Aerosol.]	<b>Color</b>	Clear. Colorless.
<b>pH</b>	Not applicable	<b>Odor</b>	Alcohol-like. [Slight]
<b>Boiling Point</b>	93°C (199.4°F)	<b>Vapor Pressure</b>	Not determined.
<b>Specific Gravity</b>	1.1	<b>Vapor Density</b>	Not determined.
<b>Solubility</b>	Easily soluble in the following materials: cold water and hot water.	<b>Evaporation Rate</b>	1 (Water = 1)
<b>Freezing Point</b>		<b>VOC (Consumer)</b>	300.11 (g/l). 2.50 lbs/gal (27.33%)

**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility</b>	Keep away from heat, sparks and flame. Reactive or incompatible with the following materials: oxidizing materials.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Hazardous Decomposition Products</b>	carbon oxides (CO, CO <sub>2</sub> )

**Section 11. Toxicological Information****Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Ethanol	LD50 Oral	Rat	7060 mg/kg	-
	LC50 Inhalation Vapor	Rat	20000 mg/m <sup>3</sup>	4 hours
Ethylene Glycol Monobutyl Ether	LD50 Dermal	Rabbit	680 mg/kg	-
	LD50 Oral	Rat	1746 mg/kg	-
	LC50 Inhalation Vapor	Rat	450 ppm	4 hours
Isopropyl Alcohol	LD50 Dermal	Rabbit	13000 mg/kg	-
	LD50 Oral	Rat	4700 mg/kg	-
	LC50 Inhalation Vapor	Rat	22500 ppm	8 hours
	LC50 Inhalation Vapor	Rat	19000 ppm	8 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** Non-hazardous waste

**Section 14. Transport Information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>TDG Classification</b>	1950	Aerosols, non-flammable	2.2			<b>Explosive Limit and Limited Quantity Index</b> 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 D-2B: Material causing other toxic effects (Toxic).

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**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.*