



Zep Inc.
11627 178th Street
Edmonton, Alberta T5S 1N6
1-800-I-BUY-ZEP www.zep.com

Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name ZEP 60
Product Use Aerosol. General Purpose Cleaner
Product Code 0273
Date of issue 04/23/10 **Supersedes** 06/14/07

Emergency For MSDS Information:

Telephone Technical Services Group
Numbers Zep Inc.
Telephone: (780) 453-8100 (Business Hours 8:00-5:00)

For a Medical or Transportation Emergency:

CANUTEC (24 Hours)
(613) 996-6666 - Call Collect

Prepared by Technical Services Group

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Date of Preparation : 04/23/10

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Toxicity Data				
ACETONE; dimethyl ketone	67-64-1	7 - 13	LD50	Mouse.	Oral	9750 mg/kg	
			LD50	Rabbit.	Dermal	20000 mg/kg	
			LC50	Rat	Inhalation	16000 ppm (4 hour(s))	
DIPROPYLENE GLYCOL N-PROPYL ETHER; 2-propanol, 1-(1-methyl-2-propoxyethoxy)	29911-27-1	3 - 7	LD50	Rat (Male)	Oral	>2000 mg/kg	
			LD50	Rat	Oral	>1500 mg/kg (Female)	
			LD50	Rabbit	Dermal	>2000 mg/kg	
ISOPROPYL ALCOHOL; ipa; dimethylcarbinol; 2-propanol	67-63-0	1 - 5	LD50	Rat	Oral	4700 mg/kg	
			LD50	Rabbit	Dermal	13000 mg/kg	
			LC50	Rat (Male)	Inhalation	22500 ppm (8 hour(s))	
			LC50	Rat (Female)	Inhalation	19000 ppm (8 hour(s))	
MONOETHANOLAMINE; 2-aminoethanol; MEA	141-43-5	1 - 5	LD50	Rat.	Oral	1720 mg/kg	
HYDROCARBON PROPELLANT; blend of propane, isobutane & n-butane	75-28-5; 74-98-6; 106-97-8	3 - 7	Not available.	Not available.	Not available.	Not available.	Not available.

Section 3. Hazards Identification

Acute Effects

Routes of Entry Absorbed through skin. Eye contact. Inhalation.

Skin	Slightly hazardous in case of skin contact (irritant). Non-sensitizer for skin. Skin inflammation is characterized by itching, scaling, or reddening. Medical Conditions Aggravated by Overexposure: Dermal
Eyes	Hazardous in case of eye contact (irritant). Liquid in eye may cause irritation with possible damage if not rinsed immediately. Medical Conditions Aggravated by Overexposure: Eye
Inhalation	Slightly hazardous in case of inhalation (lung irritant). Over-exposure by inhalation may cause respiratory irritation. Prolonged exposure may cause narcotic effect. Medical Conditions Aggravated by Overexposure: Respiratory
Ingestion	No data on acute toxicity of the product when ingested. Unlikely in this form

Chronic Effects

Prolonged or repeated contact may dry skin and cause irritation. May cause headache, nausea or weakness in case of long term exposure. The substance may be toxic to blood, kidneys, liver. Repeated or prolonged exposure to the substance can produce target organs damage.

Additional information : See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact	Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. If symptoms persist, seek immediate medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Not applicable.	Flammable Limits Not applicable.
Flammability	Non-flammable. (CSMA)	
Auto-ignition Temperature	Not applicable.	
Fire-Fighting Procedures	Use DRY chemicals, CO ₂ , water spray or foam. Wear special protective clothing and positive pressure, self-contained breathing apparatus.	
Fire Hazard	Container explosion may occur under fire conditions or when heated. Cool closed containers exposed to fire with water.	
Products of Combustion	Carbon Dioxide, Carbon Monoxide and other organic materials..	
Explosion hazard	Container explosion may occur under fire conditions or when heated.	

Section 6. Accidental Release Measures

Spill Clean up	Large spills are unlikely due to packaging.
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Section 7. Handling and Storage

Handling	Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid breathing vapors or spray mists. Do not ingest. Use only with adequate ventilation. Wash contaminated clothing before reusing. Wash thoroughly after handling.
Storage	Keep container in a cool, well-ventilated area. Protect from temperature extremes and direct sunlight. Do not store above 49°C (120.2°F). Do not puncture or incinerate.

Section 8. Exposure Controls, Personal Protection

Engineering Controls	Good general ventilation should be sufficient to control airborne levels.
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Personal Protection**Protective Clothing (Pictograms)**

Eyes	Recommended: Safety glasses.
Hands and Body	For prolonged or repeated handling, use gloves. .
Respiratory	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.



Exposure Limits

Name of Hazardous Ingredients	CAS #	Exposure Limits
Acetone	67-64-1	ACGIH TLV / OSHA PEL (United States). TWA: 750 ppm 8 hour(s). ACGIH / OSHA (United States). STEL: 1000 ppm 15 minute(s).
Propellant; Blend of Isobutane, Propane and n-Butane	75-28-5; 74-98-6; 106-97-8	ACGIH TLV / OSHA PEL (United States). Notes: Propane TWA: 1000 ppm 8 hour(s). OSHA PEL / ACGIH TLV (United States). Notes: n-Butane TWA: 800 ppm 8 hour(s). 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).
Isopropyl Alcohol	67-63-0	OSHA PEL / ACGIH TLV (United States). TWA: 3 ppm 8 hour(s). OSHA /ACGIH (United States). STEL: 6 ppm 15 minute(s).
Monoethanolamine	141-43-5	

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State	Liquid. (Aerosol.)	Color Colorless.
pH	10.3 - 10.8	Odor Floral. Citrus (Slight.)
Boiling Point	54-210°C	Vapor Pressure Not determined.
Freezing Point	Not available.	Vapor Density Not determined.
Specific Gravity	1.1 (Water = 1)	Evaporation Rate 1 compared to water
Solubility	Easily soluble in cold water.	VOC (Consumer) 9.9%

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive with acids, oxidizing agents.
Reactivity	Will not occur.
Hazardous Decomposition Products	Carbon Dioxide, Carbon Monoxide and other organic materials..

Section 11. Toxicological Information

Carcinogenic Effects	Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.
Reproductive Effects	NO known EFFECT according to our database
Mutagenic Effects	NO known EFFECT according to our database
Teratogenic Effects	NO known EFFECT according to our database

Section 12. Ecological Information

Ecotoxicity	Not available.
Biodegradable/OECD	Not available.

Section 13. Disposal Considerations

Waste Information	Waste must be disposed according to applicable regulations. Consult your local or regional authorities.	Waste Stream	No additional information
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Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
TDG Classification	1950	Aerosols, non-flammable	2.2			<u>Explosive Limit and Limited Quantity Index</u> 1

Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to the TDG regulations.

Section 15. Regulatory Information

WHMIS (Canada)	Class A: Compressed gas. Class D-2A: Material causing other toxic effects (VERY TOXIC).
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Other Regulations	Not available.
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This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the available 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.