

ZEP Inc. 11627 178th Street Edmonton, Alberta T5S 1N6 1-877-I-BUY-ZEP (428-9937) www.zen.com

Material Safety Data Sheet

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Section 1	. Chemical H	Product and	Compan	v Identification

Product name	ZEP 2000 AEROSOL			
Product use	Aerosol.			
Product code	4164			
Date of issue	10/02/13	Supersedes 10/06/10		

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

Flammable aerosol

EXTREMELY FLAMMABLE.

Do not breathe vapor or mist. Avoid contact with skin and clothing. Contains material that may cause target organ damage, based on animal data.

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 Absorbed through skin. Inhalation.

Eyes Irritating to eyes. Inflammation of the eye is characterized by redness, watering and itching.

Skin Harmful in contact with skin. Irritant, permeator. Skin inflammation is characterized by itching, scaling, or reddening. Product may be dermal absorbed. Defatting properties, may aggravate an existing dermatitis

Inhalation Harmful by inhalation. lung irritant Avoid breathing vapors, spray or mists. Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system (CNS) depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Ingestion Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.

<u>Chronic effects</u> Contains material which may cause damage to the following organs: kidneys, liver, heart, brain, central nervous system (CNS).

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients		
Name of Hazardous Ingredients	CAS number	% by Weight
BLEND OF ISOBUTANE & PROPANE	74-98-6; 75-28-5	10 - 30
HEPTANE; n-heptane	142-82-5	10 - 30

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 if irritation occurs.

Skin Contact Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get immediate medical attention.

Product code 4	164	Material Safety Data Shee	t Product Name ZEP 2000 AEROSOL		
Ingestion	unconscious p	erson. Do not induce vomiting unless dire	se damage. Never give anything by mouth to an exceed to do so by medical personnel. If vomiting occurs, the lungs. Get medical attention immediately.		
Section 5. Fire	e Fighting Mea	sures			
Flash Point	Closed cu Tagliabue	p: <-18°C (<0°F)			
Flammable Lin	hits Lower: 1.2 Upper: 6.7				
Flammability	-	Extremely flammable. (CSMA) Aerosol that may flash back.			
Auto-ignition T	emperature				
Fire-Fighting F	Procedures	apparatus (SCBA) with a full face-piece	otective equipment and self-contained breathing e operated in positive pressure mode. Use dry chemical, ontainers with water jet in order to prevent pressure build-		
Fire hazard		container may burst, with the risk of a second areas or travel a considerable of	fire or if heated, a pressure increase will occur and the ubsequent explosion. Gas may accumulate in low or listance to a source of ignition and flash back, causing ainers may be propelled from a fire at high speed.		
		carbon oxides (CO, CO_2) sulfur oxides	(SO ₂ , SO ₃ etc.)		
Explosion haz	ard	Not available.			
Section 6. Acc	idental Relea	se Measures			
Spill Clean up	place in an ap		b if water-soluble or absorb with an inert dry material and use of via a licensed waste disposal contractor. Large		
Section 7. Har	ndling and Sto	prage			
c i	or any other ignit	ion source. Use only with adequate ventil	ion 8). Store and use away from heat, sparks, open flame ation. Wear appropriate respirator when ventilation is I contact with eyes, skin and clothing. Wash thoroughly		
a v	CONTENTS UNDER PRESSURE. Do not store above the following temperature: 49°C (120.2°F). Store and use away from heat, sparks, open flame or any other ignition source. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Do not puncture or ncinerate. Keep out of the reach of children.				
Section 8. Exp	osure Contro	Is/Personal Protection			
Product name		<u>Exposure limits</u>			
No exposure limit va		<u> </u>			
Personal Prot	ective Equipm	ent (PPE)			
Eyes	Recommended:				
Hands and Body		Neoprene gloves. Rubber gloves.			
Respiratory	controls to keep occupational ex	quate ventilation. Provide exhaust ventilation or other engineering ep the airborne concentrations of vapors below their respective exposure limits. Wear appropriate respirator when ventilation is spproved/certified respirator with organic vapor cartridge.			
Section 9. Phy	sical and Che	mical Properties			
Physical State	Liquid. [Aer	rosol.]	Color Amber.		
рН	Not availabl		Odor Solvent-like.		
Boiling Point	Not determine		Vapor Pressure Not determined.		
Specific Gravi Solubility	· · · · · · · · · · · · · · · · · · ·	= 1) the following materials: cold water and	Vapor Density Not determined. Evaporation Rate >1 (butyl acetate = 1)		
,	hot water.		V_{000} (Consumer) 50.0% - 2.12 (15/m) - 274 (m/)		

Freezing Point

VOC (Consumer) 50.0% 3.12 (lb/gal) 374 (g/l)

Product code 4164		Material Safety D	ata Sheet	Product Name ZEP	2000 AEROSOL
Section 10. Stability	and Reactivit	у			_
Stability and Reactivi ncompatibility Hazardous Polymeriz Hazardous Decompo	Avoid zation Will r	roduct is stable. contact with strong oxidiz not occur. ts Under normal condition produced.			me. mposition products should not
Section 11. Toxicolo	gical Informa	tion			
Carcinogenicity Ingre	edients: Not liste	ed as carcinogen by OSHA,	NTP or IARC	•	
Acute Toxicity Product/ingredient Not available.	name	Result	5	Species Dose	Exposure
Section 12. Ecologic	al Information	า			
Environmental Effect Aquatic Ecotoxicity Product/ingredient Not available.		nown significant effects o Test	or critical haza Result	ards. Species	Exposure
Section 13. Disposa	l Consideratio	ons			
Vaste Stream		icable regulations. Consult your l	ocal or regional au	thorities for additional inform	ation.
Section 14. Transpo	TT Information	Proper shipping name	Classes	PG* Label	Additional information
TDG Classification	1950	Aerosols, flammable	2.1	-	Explosive Limit and Limited Quantity Index 1
MDG Class					
	r shipment. Limi	backage sizes. For specific o ted Quantity: Small quantitie			
Section 15. Regulato	ory Informatio	n			
<u>Canada</u>					
WHMIS (Canada)	Clas	s A: Compressed gas. s B-5: Flammable aerosol. s D-2B: Material causing c	other toxic effe	cts (Toxic).	
This product has been classifi required by the Controlled Pr		th the hazard criteria of the Contr	olled Products Reg	ulations and the MSDS contai	ins all the information
Section 16. Other In	formation				
		ntained herein is accurate. Howe ness of the information contained		ove named supplier nor any o	f its subsidiaries assumes any

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.