



Zep Inc.  
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Atlanta, GA 30318  
1-877-I-BUY-ZEP (428-9937)  
www.zep.com

# Material Safety Data Sheet

## and Safe Handling and Disposal Information

### Section 1. Chemical Product and Company Identification

**Product name** ZEPAX  
**Product use** Disinfectant. Cleaner. Deodorizer  
**Product code** 0020  
**Date of issue** 03/10/08 **Supersedes** 11/24/04

This product is a registered pesticide. EPA ID No. 33176-6-1270

**Emergency Telephone Numbers** **For MSDS Information:**  
Compliance Services 1-877-I-BUY-ZEP (428-9937)

**For Medical Emergency**  
INFOTRAC: (877) 541-2016 Toll Free - All Calls Recorded

**For Transportation Emergency**  
CHEMTREC: (800) 424-9300 - All Calls Recorded  
In the District of Columbia (202) 483-7616

Printing date: 06/23/08

**Prepared By**  
Compliance Services  
1420 Seaboard Industrial Blvd.  
Atlanta, GA 30318

### Section 2. Composition, Information on Ingredients

Name of hazardous ingredients	CAS #	% by Weight	Exposure Limits
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	111-76-2	1 - 10	<b>ACGIH TLV (United States).</b> TWA: 20 ppm 8 hour(s). <b>OSHA PEL (United States). Skin</b> TWA: 50 ppm 8 hour(s).
HYDROCARBON PROPELLANT; blend of propane, isobutane & n-butane	75-28-5; 74-98-6; 106-97-8	1 - 5	<b>ACGIH TLV / OSHA PEL (United States).</b> <b>Notes: Propane</b> TWA: 1000 ppm 8 hour(s). <b>OSHA PEL / ACGIH TLV (United States).</b> <b>Notes: n-Butane</b> TWA: 800 ppm 8 hour(s).
O-PHENYL PHENOL; 2-hydroxy biphenyl; 2-biphenylol	90-43-7	0.10	Not established
ORTHO-BENZYL-PARA-CHLOROPHENOL; o-benzyl-p-chloropheno	120-32-1	0.08	Not established

### Section 3. Hazards Identification

#### Acute Effects

**Routes of Entry** Dermal contact. Eye contact.

**Skin** Hazardous by the following route of exposure: of skin contact (irritant, permeator). Harmful if absorbed through the skin. Direct contact may cause irritation and redness. Prolonged or repeated contact may dry skin and cause irritation.

**Eyes** Hazardous by the following route of exposure: of eye contact (irritant). Inflammation of the eye is characterized by redness, watering and itching.

**Inhalation** Hazardous by the following route of exposure: of inhalation. Avoid breathing vapors, spray or mists. Over-exposure by inhalation may cause respiratory irritation.

**Ingestion** Aspiration hazard if swallowed. Can enter lungs and cause damage. Can cause gastrointestinal disturbances.

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

#### Carcinogenic Effects

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

#### Chronic Effects

The substance may be toxic to blood, kidneys, liver, upper respiratory tract, skin, eyes, central nervous system (CNS). Inhalation or absorption of spray mists or vapors may cause central nervous system depression characterized by headache, dizziness, nausea, stupor, weakness and/or numbness and tingling in the extremities (medical term - peripheral neuropathy). Repeated or prolonged exposure to the substance can produce target organs damage.

**See Toxicological Information (section 11)**

#### HMIS

<b>Health</b>	<b>1</b>
<b>Fire Hazard</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal Protection</b>	<b>B</b>

### Section 4. First Aid Measures

#### Eye Contact

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention.

#### Skin Contact

In case of contact, immediately flush skin with plenty of water. Get medical attention if irritation develops.

#### Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get 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**

<b>Flash Point</b>	Not available.	<b>Flammable Limits</b>	Not available.
<b>Flammability</b>	Non-flammable. (CSMA)		
<b>Fire hazard</b>	CONTENTS UNDER PRESSURE. Container explosion may occur under fire conditions or when heated. Cool closed containers exposed to fire with water.		
<b>Fire-fighting procedures</b>	Dry chemical, carbon dioxide, foam. Wear special protective clothing and positive pressure, self-contained breathing apparatus.		

**Section 6. Accidental Release Measures**

<b>Spill Clean up</b>	Large spills are unlikely due to packaging.
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**Section 7. Handling and Storage**

<b>Handling</b>	Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Wash contaminated clothing before reusing. Apply this product only as specified on the label. Wash thoroughly after handling.
<b>Storage</b>	CONTENTS UNDER PRESSURE. Do not puncture or incinerate. Keep away from heat and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

**Section 8. Exposure Controls, Personal Protection****Personal Protection****Protective Clothing (Pictograms)**

<b>Eyes</b>	Safety glasses.	
<b>Body</b>	Recommended: Neoprene gloves. Nitrile gloves. Natural rubber (latex) 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. Foam.]	<b>Color</b>	White.
<b>pH</b>	12.5-13.0	<b>Odor</b>	Pleasant. Light
<b>Boiling Point</b>	Not determined.	<b>Vapor Pressure</b>	Not determined.
<b>Specific Gravity</b>	1	<b>Vapor Density</b>	Not determined.
<b>Solubility</b>	Easily soluble in the following materials: cold water, hot water.	<b>Evaporation Rate</b>	Not determined.
		<b>VOC (Consumer)</b>	119.79 (g/l). (12.0%)

**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility</b>	Reactive with oxidizing agents.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Hazardous Decomposition Products</b>	carbon oxides (CO, CO <sub>2</sub> )

**Section 11. Toxicological Information**

<b>Toxicity to Animals</b>	<b>Ethylene Glycol Monobutyl Ether:</b> ^[25,45,50,70 ORAL (LD50): □ Acute: 1746 mg/kg [Rat]. DERMAL (LD50): □ Acute: 680 mg/kg [Rabbit]. VAPOR (LC50): □ Acute: 450 ppm 4 hour(s) [Rat (Female)]. <b>o-Phenyl Phenol:</b> ^[25,45,50,70 ORAL (LD50): □ Acute: 2000 mg/kg [Rat]. 1050 mg/kg [Mouse]. <b>o-Benzyl-p-chlorophenol:</b> ^[25,45,50,70 ORAL (LD50): □ Acute: 260 mg/kg [Rat].
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**Section 12. Ecological Information**

<b>Ecotoxicity</b>	Not available.
<b>Biodegradable/OECD</b>	Not available.

**Section 13. Disposal Considerations**

<b>Waste Information</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	<b>Waste Stream</b>	Non-hazardous waste
Consult your local or regional authorities.			

**Section 14. Transport Information**

<b>Proper shipping name</b>	Consumer commodity	<b>UN number</b>	Not regulated.
<b>DOT Classification</b>	ORM-D		

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.

<b>TDG Classification</b>	Consumer commodity
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**Section 15. Regulatory Information****U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

Ethylene Glycol Monobutyl Ether

o-Phenyl Phenol

**Clean Water Act (CWA) 311:** No products were found.

**Clean Air Act (CAA) 112 regulated toxic substances:** No products were found.

All Components of this product are listed or exempt from listing on TSCA inventory.

**State Regulations**

**WARNING:** This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.: o-Phenyl Phenol

**WHMIS (Canada)**

Not controlled under WHMIS (Canada).

**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.*