



Zep Inc.
1310 Seaboard Industrial Blvd.
Atlanta, GA 30318
1-877-I-BUY-ZEP (428-9937)

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

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	ACGIH TLV (United States). TWA: 20 ppm 8 hour(s). OSHA PEL (United States). Skin 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	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).
O-PHENYL PHENOL; 2-hydroxy biphenyl; 2-biphenyol ORTHO-BENZYL-PARA-CHLOROPHENOL; o-benzyl-p-chloropheno	90-43-7 120-32-1	0.10 0.08	Not established Not established

Section 3. Hazards Identification

		HMIS								
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.	<table><tr><td>Health</td><td>1</td></tr><tr><td>Fire Hazard</td><td>0</td></tr><tr><td>Reactivity</td><td>0</td></tr><tr><td>Personal Protection</td><td>B</td></tr></table>	Health	1	Fire Hazard	0	Reactivity	0	Personal Protection	B
Health	1									
Fire Hazard	0									
Reactivity	0									
Personal Protection	B									
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)

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

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

Section 6. Accidental Release Measures

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

Section 7. Handling and Storage

Handling	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.
Storage	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)
Eyes	Safety glasses.	
Body	Recommended: Neoprene gloves. Nitrile gloves. Natural rubber (latex) gloves.	
Respiratory	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

Physical State	Liquid. [Aerosol. Foam.]	Color White.
pH	12.5-13.0	Odor Pleasant. Light
Boiling Point	Not determined.	Vapor Pressure Not determined.
Specific Gravity	1	Vapor Density Not determined.
Solubility	Easily soluble in the following materials: cold water, hot water.	Evaporation Rate Not determined. VOC (Consumer) 119.79 (g/l). (12.0%)

Section 10. Stability and Reactivity

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

Section 11. Toxicological Information

Toxicity to Animals	Ethylene Glycol Monobutyl Ether: ^[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)]. o-Phenyl Phenol: ^[25,45,50,70] ORAL (LD50): □ Acute: 2000 mg/kg [Rat]. 1050 mg/kg [Mouse]. o-Benzyl-p-chlorophenol: ^[25,45,50,70] ORAL (LD50): □ Acute: 260 mg/kg [Rat].
----------------------------	--

Section 12. Ecological Information

Ecotoxicity	Not available.
Biodegradable/OECD	Not available.

Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	Waste Stream Non-hazardous waste
--------------------------	--	---

Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name	Consumer commodity	UN number Not regulated.
DOT Classification	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.

TDG Classification	Consumer commodity
---------------------------	--------------------

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.