Material Safety Data Sheet



Zep Inc. 1310 Seaboard Industrial Blvd. Atlanta, GA 30318 1-877-I-BUY-ZEP (428-9937) www.zep.com Section 1. Chemical Product and Company Identification

Product name ZEP SPIRIT II READY-TO-USE

DETERGENT DISINFECTANT

Product use Cleaner - Disinfectant - Deodorant.

Product code 0679

Date of issue 08/13/08 Supersedes 11/08/04

This product is a registered pesticide. EPA ID No. 1839-83-1270

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

Prepared By

Compliance Services

1420 Seaboard Industrial Blvd.

Atlanta, GA 30318

Section 2. Hazards Identification

Printing date: 08/13/08

Emergency overview

CAUTION!

CAUSES EYE IRRITATION.

*Hazard Determination System (HDS): Health, Flammability, Reactivity





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. Eye contact.

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

Skin May cause skin irritation. 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. Ingestion may cause gastrointestinal irritation and diarrhea.

Chronic effects Prolonged or repeated contact may dry skin and cause irritation. Contains material which may

cause damage to the following organs: blood, kidneys, liver.

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

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-butoxyethoxy)-ethanol; butyl carbitol 112-34-5 1 - 10
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE; ethylenediamine tetraacetic 64-02-8 1 - 5

acid; tetrasodium salt

QUATERNARY AMMONIUM CHLORIDES; blend of alkyl dimethylbenzyl ammonium 68391-01-5; 68956- <1

chlorides, alkyl dimethyl ethylbenzyl ammonium chlorides, and ethanol 79-6; 64-17-5

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 contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before

reuse. Get medical attention if irritation develops.

Inhalation Move exposed person 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. If vomiting occurs, the head should be

kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If

affected person is conscious, give plenty of water to drink. Get medical attention immediately.

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Section 5. Fire Fighting Measures

Flash Point Closed cup: >93.9°C (>201°F)

Flammable Limits Not applicable. **Flammability** Non-combustible.

Fire hazard In a fire or if heated, a pressure increase will occur and the container may burst.

Use an extinguishing agent suitable for the surrounding fire. Do not release runoff from fire to Fire-Fighting

Procedures sewers or waterways.

Section 6. Accidental Release Measures

Spill Clean up Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move containers

from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in

an appropriate waste disposal container.

Section 7. Handling and Storage

Handling Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not

breathe vapor or mist. Do not ingest. Apply this product only as specified on the label. Do not reuse container.

Wash thoroughly after handling.

Storage Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible

materials (see section 10) and food and drink. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Exposure limits Product name

DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-Manufacturer (United States). butoxyethoxy)-ethanol; butyl carbitol TWA: 35 ppm 8 hour(s).

Personal Protective Equipment (PPE)

Eyes Safety glasses.

Recommended: Neoprene gloves. Rubber gloves. Nitrile gloves. **Body**

Respiratory A respirator is not needed under normal and intended conditions of product use.

Section 9. Physical and Chemical Properties

Color Clear. Green. **Physical State** Liquid. [] pН 11.5 - 12.5 **Odor** Citrus

>100°C (>212°F) **Boiling Point** Vapor Pressure Not determined. **Specific Gravity** Vapor Density Not determined.

Evaporation Rate 1 (Water = 1) Solubility Easily soluble in the following materials: cold water

and hot water.

VOC (Consumer) 0 (g/l).

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂ etc.), Ammonia.

Section 11. Toxicological Information

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Diethylene Glycol Monobutyl Ether	LD50 Dermal	Rabbit	2700 mg/kg	_
	LD50 Oral	Rat	5660 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-
Tetrasodium Ethylenediamine Tetraacetate	LD50 Oral	Rat	4100 mg/kg	-
Quaternary Ammonium Chlorides	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>500 mg/kg	-

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National Fire Protection Association (U.S.A.)

Section 12. Ecological Information

Environmental Effects

Toxic to aquatic organisms.

Aquatic Ecotoxicity

Product/ingredient nameTestResultSpeciesExposureQuaternary Ammonium Chlorides-Acute EC50 0.058 mg/LDaphnia48 hours--Acute LC50 0.52 mg/LFish - Bluegill.96 hours

Section 13. Disposal Considerations

Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control 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
DOT Classification	Not regulated.	Not a DOT controlled material (United States).			
IMDG Class	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.

PG* : Packing group

Section 15. Regulatory Information

U.S. Federal Regulations

SARA 313 toxic chemical notification and release reporting:

Product name

Diethylene Glycol Monobutyl Ether

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: Diethylene Glycol Monobutyl Ether

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

State Regulations

California Prop 65 No products were found.

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.

*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.