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 FORMULA 50

Product use General Purpose Cleaner

Product code 0859

Date of issue 06/08/09 Supersedes 08/11/08

Emergency Telephone Numbers

For MSDS Information:

Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency

(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

Printing date: 06/08/09 Compliance Services

1420 Seaboard Industrial Blvd.

Atlanta, GA 30318

Section 2. Hazards Identification

Emergency overview

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

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DANGER!

CAUSES EYE BURNS. HARMFUL IF INHALED OR ABSORBED

THROUGH SKIN.

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. Inhalation.

Eyes Causes eye burns. Direct contact with the eyes can cause irreversible damage, including

blindness.

Skin Causes skin irritation. Harmful if absorbed through the skin. Skin inflammation is

characterized by itching, scaling, reddening or, occasionally, blistering.

Inhalation Avoid breathing vapors, spray or mists. Inhalation of the spray or mist may produce severe

irritation of respiratory tract, characterized by coughing, choking or shortness of breath. Can

cause central nervous system (CNS) depression.

Ingestion Harmful if swallowed. May cause burns to mouth, throat and stomach.

Chronic effects Overexposure of this product by inhalation or absorption can produce central nervous system

depression resulting in headache, nausea and/or dizziness. Contains material which may cause

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

Carcinogenicity

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

Product/ingredient name ACGIH IARC EPA NIOSH NTP OSHA

None.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients		
Name of Hazardous Ingredients	CAS number	% by Weight
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	111-76-2	1 - 5
SODIUM METASILICATE; silicic acid (H2-Si-O3) disodium salt; water glass	6834-92-0	1 - 5
SODIUM DODECYLBENZENE SULFONATE; linear alkyl aryl sodium sulfonate; Sodium	25155-30-0	1 - 5
DDBSA		
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE; ethylenediamine tetraacetic	64-02-8	1 - 5
acid; tetrasodium salt		

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Section 4. First Aid Measures

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and **Eye Contact**

remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.

Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Skin Contact

Get medical attention if irritation develops.

Move exposed person to fresh air. Get medical attention if adverse health effects persist or are severe. Inhalation

Ingestion Do not induce vomiting unless directed to do so by medical personnel. If affected person is conscious, give

plenty of water to drink. Never give anything by mouth to an unconscious person. Get medical attention

immediately.

Section 5. Fire Fighting Measures

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



Flash Point None.

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

Fire hazard May emit toxic fumes under fire conditions.

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

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. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and Storage

Put on appropriate personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Do not **Handling**

breathe vapor or mist. Use with adequate ventilation. Do not ingest. Do not reuse container. Wash thoroughly after

handling. Observe label precautions.

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. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C).

Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name **Exposure limits**

ETHYLENE GLYCOL MONOBUTYL ETHER; 2-ACGIH TLV (United States). Skin butoxyethanol; butyl cellosolve TWA: 20 ppm 8 hour(s). Form:

OSHA PEL (United States). Skin TWA: 50 ppm 8 hour(s). Form:

SODIUM METASILICATE; silicic acid (H2-Si-O3) disodium salt; Supplier Suggested (United States).

CEIL: 2 mg/m3 Form:

Personal Protective Equipment (PPE)

Eyes Splash goggles.

Body Wear appropriate protective clothing to prevent skin contact.

Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves.

Synthetic apron.

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. Wear appropriate respirator when ventilation is

inadequate.

Section 9. Physical and Chemical Properties

Physical State Color Clear. Dark Blue. Liquid.

12.5 - 13.5 Odor Mild. pН 104.44°C (220°F) **Boiling Point** Vapor Pressure Not determined.

Specific Gravity Vapor Density Not determined.

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

VOC (Consumer) 42.3 (g/l). 0.35 lbs/gal (3.96%)

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Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

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

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products carbon oxides (CO, CO₂)

Section 11. Toxicological Information

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Ethylene Glycol Monobutyl Ether	LD50 Dermal	Guinea pig	>2000 mg/kg	-
	LD50 Oral	Guinea pig	1200 mg/kg	-
	LC50 Inhalation Vapor	Guinea pig	>633 ppm	1 hours
Sodium Metasilicate	LD50 Oral	Rat	1153 mg/kg	-
	LD50 Oral	Mouse	770 mg/kg	-
Sodium Dodecylbenzene Sulfonate	LD50 Oral	Mouse	2000 mg/kg	-
	LD50 Oral	Rat	1260 mg/kg	-
Tetrasodium Ethylenediamine Tetraacetate	LD50 Oral	Rat	4100 mg/kg	-

Section 12. Ecological Information

Environmental Effects

No known significant effects or critical hazards.

Aquatic Ecotoxicity

Not available.

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 Code: D002

Classification: - [Hazardous waste]

Origin: - [RCRA 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).			

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

Ethylene Glycol Monobutyl Ether

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

Clean Water Act (CWA) 311: Sodium Dodecylbenzene Sulfonate

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

California Prop 65 No products were found.

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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.