

Material Safety Data Sheet



Zep Sales & Service, A Unit of 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 BOWL SHINE
Product use Toilet Bowl & Urinal Cleaner
Product code 1185
Date of issue 03/11/08 **Supersedes** 08/19/04

This product is a registered pesticide. EPA ID No. 1270-235

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: 03/11/08

Prepared By

Compliance Services
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Hazards Identification

Emergency overview

DANGER

CAUSES EYE AND SKIN BURNS.

MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.

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.

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



Acute Effects

Routes of Entry

Dermal contact. Eye contact.

Eyes

Causes eye burns. Eye exposure may cause severe and permanent eye injury (blindness).

Skin

Skin contact may produce burns. May be harmful if absorbed through the skin. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.

Inhalation

Avoid inhalation of vapor, spray or mist. Over-exposure by inhalation may cause respiratory irritation.

Ingestion

May be harmful if swallowed. May cause burns to mouth, throat, and stomach.

Chronic effects

Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation, leading to frequent attacks of bronchial infection.

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

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

| | CAS number | % by Weight |
|---|---------------------------------|-------------|
| TETRASODIUM ETHYLENEDIAMINE TETRAACETATE; ethylenediamine tetraacetic acid; tetrasodium salt | 64-02-8 | 10 - 20 |
| QUATERNARY AMMONIUM CHLORIDES; blend of alkyl dimethylbenzyl ammonium chlorides, alkyl dimethyl ethylbenzyl ammonium chlorides, and ethanol | 68391-01-5; 68956-79-6; 64-17-5 | <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 contaminated clothing thoroughly with water before removing or wear gloves. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Get medical attention if irritation develops.

Inhalation

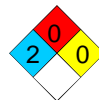
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion

Do not induce vomiting unless directed to do so by medical personnel. 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.

Section 5. Fire Fighting Measures

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



| | |
|---------------------------------|---|
| Flash Point | None. |
| 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. May emit toxic fumes under fire conditions. |
| Fire-Fighting Procedures | Use an extinguishing agent suitable for the surrounding fire. Fire-fighters should wear appropriate protective equipment. Do not release runoff from fire to sewers or waterways. |

Section 6. Accidental Release Measures

| | |
|-----------------------|---|
| Spill Clean up | Put on appropriate personal protective equipment (see section 8). 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. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. |
|-----------------------|---|

Section 7. Handling and Storage

| | |
|-----------------|---|
| Handling | Put on appropriate personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Do not ingest. Do not reuse container. Apply this product only as specified on the label. Wash thoroughly after handling. |
| Storage | Keep container tightly closed and sealed until ready for use. Keep container in a cool, well-ventilated area. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children. |

Section 8. Exposure Controls/Personal Protection**Product name** **Exposure limits**

No exposure limit value known.

Personal Protective Equipment (PPE)

| | |
|--------------------|---|
| Eyes | Chemical splash goggles or face shield. |
| Body | Wear appropriate protective clothing to prevent skin contact. Recommended: Rubber gloves. Neoprene gloves. Wear apron or coverall if there is a risk of exposure to splashes. |
| Respiratory | Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use. |

Section 9. Physical and Chemical Properties

| | | | |
|-------------------------|--|-------------------------|----------------------------------|
| Physical State | Liquid. [Viscous liquid.] | Color | Blue. |
| pH | 9.5-10.5 | Odor | Floral. |
| Boiling Point | 100°C (212°F) | Vapor Pressure | Not determined. |
| Specific Gravity | 1.06 | Vapor Density | Not determined. |
| Solubility | Easily soluble in the following materials: cold water and hot water. | Evaporation Rate | <1 (Water = 1) |
| | | VOC (Consumer) | 5.93 (g/l). 0.05 lbs/gal (0.56%) |

Section 10. Stability and Reactivity

| | |
|---|--|
| Stability and Reactivity | The product is stable. |
| Incompatibility | No incompatible product according to our database. |
| Hazardous Polymerization | Will not occur. |
| Hazardous Decomposition Products | carbon oxides (CO, CO ₂), sulfur oxides (SO ₂ , SO ₃ etc.) |

Section 11. Toxicological Information**Acute Toxicity**

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|-------------|---------|-------------|----------|
| Tetrasodium Ethylenediamine Tetraacetate | LD50 Oral | Rat | 4100 mg/kg | - |
| Quaternary Ammonium Chlorides | LD50 Dermal | Rabbit | >2000 mg/kg | - |
| | LD50 Oral | Rat | >500 mg/kg | - |

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity

| Product/ingredient name | Test | Result | Species | Exposure |
|-------------------------------|------|-----------------------|------------------|----------|
| Quaternary Ammonium Chlorides | - | Acute EC50 0.058 mg/L | Daphnia | 48 hours |
| | - | Acute LC50 0.52 mg/L | Fish - 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:

No products were found.

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: 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.

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.