

# Material Safety Data Sheet



Zep Inc.  
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1-877-793-7776

## Section 1. Chemical Product and Company Identification

**Product name** FOOD SERVICE FLOOR CLEANER  
**Product use** Food Industry Floor Cleaner  
**Product code** R113  
**Date of issue** 05/11/09 **Supersedes**

### Emergency Telephone Numbers

**For MSDS Information:**  
Compliance Services 1-877-793-7776

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

## Section 2. Hazards Identification

### Emergency overview

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

WARNING !



CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
HARMFUL IF 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 irritation. Inflammation of the eye is characterized by redness, watering and itching.

**Skin** Causes skin irritation. Harmful if absorbed through the skin. 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** 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. 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: kidneys, lungs, liver, testes.

**Additional Information:** See Toxicological Information (Section 11)

## Section 3. Composition/Information on Ingredients

|  |            |        |
|--|------------|--------|
| DIETHYLENE GLYCOL MONOMETHYL ETHER; 2-(2-meth-oxy)-ethanol; methyl carbitol                              | 111-77-3   | 5 - 15 |
| NONYLPHENOXY POLY(ETHYLENEOXY) ETHANOL - npe; poly(oxy-1,2-ethanediyl) alpha-(nonylphenyl)-omega-hydroxy | 9016-45-9  | 1 - 10 |
| SODIUM DODECYLBENZENE SULFONATE; linear alkyl aryl sodium sulfonate; Sodium DDBSA                        | 25155-30-0 | <5     |
| SODIUM SILICATE; water glass   | 1344-09-8  | <5     |
| TETRASODIUM ETHYLENEDIAMINE TETRAACETATE; ethylenediamine tetraacetic acid; tetrasodium salt             | 64-02-8    | <5     |
| MONOETHANOLAMINE; 2-aminoethanol; MEA  | 141-43-5   | <3     |

## 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. Get medical attention immediately.

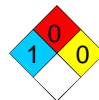
**Skin Contact** Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.

**Inhalation** Move exposed person to fresh air. If irritation persists, 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.)



|                                 |   |
|---------------------------------|---|
| <b>Flash Point</b>              | None.   |
| <b>Flammable Limits</b>         | Not available.  |
| <b>Flammability</b>             | Not available.  |
| <b>Fire hazard</b>              | In a fire or if heated, a pressure increase will occur and the container may burst. |
| <b>Fire-Fighting Procedures</b> | Use an extinguishing agent suitable for the surrounding fire.                       |

**Section 6. Accidental Release Measures**

|                       |   |
|-----------------------|---|
| <b>Spill Clean up</b> | 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. |
|-----------------------|---|

**Section 7. Handling and Storage**

|                 |  |
|-----------------|--|
| <b>Handling</b> | 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. Do not reuse container. Wash thoroughly after handling.  |
| <b>Storage</b>  | 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 container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Keep out of the reach of children. |

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

SODIUM SILICATE; water glass

MONOETHANOLAMINE; 2-aminoethanol; MEA

**Exposure limits****Supplier Suggested (United States).**CEIL: 2 mg/m<sup>3</sup>**OSHA PEL / ACGIH TLV (United States).**

TWA: 3 ppm 8 hour(s).

**OSHA /ACGIH (United States).**

STEL: 6 ppm 15 minute(s).

**Personal Protective Equipment (PPE)**

|                    |   |
|--------------------|---|
| <b>Eyes</b>        | Safety glasses.   |
| <b>Body</b>        | Wear appropriate protective clothing to prevent skin contact.<br>Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves. |
| <b>Respiratory</b> | Avoid breathing vapors, spray or mists. Use with adequate ventilation.  |

**Section 9. Physical and Chemical Properties**

|                         |  |                         |                                   |
|-------------------------|--|-------------------------|-----------------------------------|
| <b>Physical State</b>   | Liquid. [Thin liquid]  | <b>Color</b>            | Green.                            |
| <b>pH</b>               | 11.8 to 12.2   | <b>Odor</b>             | Mild.                             |
| <b>Boiling Point</b>    | ~104.4°C (~220°F)  | <b>Vapor Pressure</b>   | Not determined.                   |
| <b>Specific Gravity</b> | 1.06   | <b>Vapor Density</b>    | Not determined.                   |
| <b>Solubility</b>       | Easily soluble in the following materials: cold water and hot water. | <b>Evaporation Rate</b> | 1 (Butyl acetate. = 1)            |
|                         |  | <b>VOC (Consumer)</b>   | 74.07 (g/l). 0.62 lbs/gal (7.00%) |

**Section 10. Stability and Reactivity**

|   |   |
|---|---|
| <b>Stability and Reactivity</b>         | The product is stable.  |
| <b>Incompatibility</b>                  | Reactive or incompatible with the following materials: oxidizing materials and acids. |
| <b>Hazardous Polymerization</b>         | Will not occur.   |
| <b>Hazardous Decomposition Products</b> | carbon oxides (CO, CO <sub>2</sub> )  |

**Section 11. Toxicological Information****Acute Toxicity**

| Product/ingredient name                  | Result      | Species | Dose        | Exposure |
|--|-------------|---------|-------------|----------|
| Diethylene Glycol Dimethyl Ether         | LD50 Dermal | Rabbit  | 650 mg/kg   | -        |
| Nonylphenoxypoly(Ethyleneoxy)Ethano      | LD50 Dermal | Rabbit  | 2000 mg/kg  | -        |
|  | LD50 Oral   | Rat     | 3310 mg/kg  | -        |
| Sodium Dodecylbenzene Sulfonate          | LD50 Oral   | Mouse   | 2000 mg/kg  | -        |
|  | LD50 Oral   | Rat     | 1260 mg/kg  | -        |
| Sodium Silicate                          | LD50 Oral   | Rat     | 3300 mg/kg  | -        |
| Tetrasodium Ethylenediamine Tetraacetate | LD50 Oral   | Rat     | 4100 mg/kg  | -        |
| Monoethanolamine                         | LD50 Dermal | Rabbit  | >1000 mg/kg | -        |
|  | LD50 Oral   | Rat     | 1720 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** Non-hazardous waste

**Section 14. Transport Information**

| Regulatory information    | UN number       | Proper shipping name                           | Classes | PG* | Label |
|---------------------------|-----------------|--|---------|-----|-------|
| <b>DOT Classification</b> | Not regulated.  | Not a DOT controlled material (United States). |         |     |       |
| <b>IMDG Class</b>         | 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 Monomethyl 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:** Diethylene Glycol Monomethyl 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.