



Zep Commercial Sales & Service  
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# Safety Data Sheet

## Section 1. Chemical Product and Company Identification

**Product name** Industrial Purple Cleaner and Degreaser Concentrate  
**Product code** ZU0856  
**Date of issue** 7/16/13 **Supersedes** 12/07/12  
Not available.

### Emergency Telephone Numbers

#### For MSDS Information:

Compliance Services 404-352-1680

#### 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

**DANGER !**

3 1 0

CAUSES EYE AND SKIN BURNS. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. HARMFUL OR FATAL 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.

### Acute Effects

#### Routes of Entry

Dermal contact. Eye contact. Inhalation.

#### Eyes

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

#### Skin

Causes skin burns. 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. Over-exposure by inhalation may cause respiratory irritation. 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. 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. Contains material which may cause damage to the following organs: blood, kidneys, liver, upper respiratory tract, skin, eyes, central nervous system (CNS).

**Carcinogenicity** No known significant effects or critical hazards.

### Product/ingredient name

Not available.

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

**Section 3. Composition/Information on Ingredients**

| <u>Name of Hazardous Ingredients</u>                                  | <u>CAS number</u> | <u>% by Weight</u> |
|-----------------------------------------------------------------------|-------------------|--------------------|
| sodium hydroxide                                                      | 1310-73-2         | 1 - 10             |
| Butoxyethanol; Butyl Cellosolve; 2-butoxyethanol                      | 111-76-2          | 1 - 10             |
| Fatty acids, tall-oil                                                 | 61790-12-3        | 1 - 5              |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 68439-57-6        | 1 - 5              |
| Alkyl(C9-11) alcohol, ethoxylated                                     | 68439-46-3        | 1 - 5              |

**Section 4. First Aid Measures**

|                     |                                                                                                                                                                                                                                                                                                                         |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Contact</b>  | 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.                                                                                                   |
| <b>Skin Contact</b> | Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately.                                                                                                                                                                        |
| <b>Inhalation</b>   | Move exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.                                                                                                                                                             |
| <b>Ingestion</b>    | 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. 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.)



|                                 |                                                                                                                                 |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Flash Point</b>              | Closed cup: >88°C (>190.4°F)                                                                                                    |
| <b>Flammable Limits</b>         | Not applicable                                                                                                                  |
| <b>Flammability</b>             | Non-combustible.                                                                                                                |
| <b>Fire hazard</b>              | In a fire or if heated, a pressure increase will occur and the container may burst. May emit toxic fumes under fire conditions. |
| <b>Fire-Fighting Procedures</b> | Use an extinguishing agent suitable for the surrounding fire. Do not release runoff from fire to drains or watercourses.        |

**Section 6. Accidental Release Measures**

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

|                 |                                                                                                                                                                                                                                                                                     |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b> | Put on appropriate personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Do not breathe vapor or mist. Use with adequate ventilation. Do not ingest. Do not reuse container. Wash thoroughly after handling. Observe label precautions.        |
| <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. 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

sodium hydroxide

Exposure limits

ACGIH TLV (United States, 2/2010).

C: 2 mg/m<sup>3</sup>

OSHA PEL 1989 (United States, 3/1989).

CEIL: 2 mg/m<sup>3</sup>

NIOSH REL (United States, 6/2009).

CEIL: 2 mg/m<sup>3</sup>

OSHA PEL (United States, 6/2010).

TWA: 2 mg/m<sup>3</sup> 8 hour(s).

OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.

TWA: 25 ppm 8 hour(s).

TWA: 120 mg/m<sup>3</sup> 8 hour(s).

NIOSH REL (United States, 6/2009). Absorbed through skin.

TWA: 5 ppm 10 hour(s).

TWA: 24 mg/m<sup>3</sup> 10 hour(s).

ACGIH TLV (United States, 2/2010).

TWA: 20 ppm 8 hour(s).

OSHA PEL (United States, 6/2010). Absorbed through skin.

TWA: 50 ppm 8 hour(s).

TWA: 240 mg/m<sup>3</sup> 8 hour(s).

Butoxyethanol; Butyl Cellosolve; 2-butoxyethanol

**Personal Protective Equipment (PPE)**

|                    |                                                                                                                                                                                                                                                         |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eyes</b>        | Splash goggles. Face shield.                                                                                                                                                                                                                            |
| <b>Body</b>        | Wear appropriate protective clothing to prevent skin contact.<br>Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves.<br>Synthetic apron. Chemical resistant boots.                                                                             |
| <b>Respiratory</b> | 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**

|                         |                                                                      |                         |                                      |
|-------------------------|----------------------------------------------------------------------|-------------------------|--------------------------------------|
| <b>Physical State</b>   | Liquid.                                                              | <b>Color</b>            | Clear. Purple.                       |
| <b>pH</b>               | 13.0 - 14.0                                                          | <b>Odor</b>             | Mild. Ethereal.                      |
| <b>Boiling Point</b>    | 98.9°C (210°F)                                                       | <b>Vapor Pressure</b>   | Not determined.                      |
| <b>Specific Gravity</b> | 1.055                                                                | <b>Vapor Density</b>    | >1 [Air = 1]                         |
| <b>Solubility</b>       | Easily soluble in the following materials: cold water and hot water. | <b>Evaporation Rate</b> | 1 (Water = 1)                        |
|                         |                                                                      | <b>VOC (Consumer)</b>   | 3.4 % (w/w) 0.299 lbs/gal (35.9 g/l) |

**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, metals 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 |
|--------------------------------------------|-----------------------|------------|-------------|----------|
| Sodium Hydroxide                           | LD50 Dermal           | Rabbit     | >2000 mg/kg | -        |
|                                            | LD50 Oral             | Rat        | 500 mg/kg   | -        |
| 2-butoxyethanol                            | LC50 Inhalation Gas.  | Rat        | 450 ppm     | 4 hours  |
|                                            | LC50 Inhalation Vapor | Guinea pig | >633 ppm    | 1 hours  |
|                                            | LD50 Dermal           | Guinea pig | >2000 mg/kg | -        |
|                                            | LD50 Dermal           | Rabbit     | 220 mg/kg   | -        |
|                                            | LD50 Oral             | Guinea pig | 1200 mg/kg  | -        |
|                                            | LD50 Oral             | Rat        | 250 mg/kg   | -        |
| Benzenesulfonic acid, C10-16-alkyl derivs. | LD50 Dermal           | Rabbit     | 2000 mg/kg  | -        |
|                                            | LD50 Oral             | Rat        | 775 mg/kg   | -        |
| Alkyl(C9-11) alcohol, ethoxylated          | LD50 Dermal           | Rabbit     | >2000 mg/kg | -        |
|                                            | LD50 Oral             | Rat        | 1378 mg/kg  | -        |
|                                            | LD50 Oral             | Rat        | 1400 mg/kg  | -        |

**Section 12. Ecological Information**

|                              |                |
|------------------------------|----------------|
| <b>Environmental Effects</b> | Not available. |
|------------------------------|----------------|

**Aquatic Ecotoxicity**

| Product/ingredient name                                               | Test | Result                                  | Species                                                                   | Exposure |
|-----------------------------------------------------------------------|------|-----------------------------------------|---------------------------------------------------------------------------|----------|
| sodium hydroxide                                                      | -    | Acute EC50 40.38 mg/L<br>Fresh water    | Crustaceans - Water flea<br>- Ceriodaphnia dubia -<br>Neonate - <24 hours | 48 hours |
|                                                                       | -    | Acute LC50 125000 ug/<br>L Fresh water  | Fish - Western<br>mosquitofish -<br>Gambusia affinis - Adult              | 96 hours |
| Butoxyethanol; Butyl Cellosolve; 2-butoxyethanol                      | -    | Acute EC50 >1000 mg/<br>L Fresh water   | Daphnia - Water flea -<br>Daphnia magna - <24<br>hours                    | 48 hours |
|                                                                       | -    | Acute LC50 800000 ug/<br>L Marine water | Crustaceans - Common<br>shrimp, sand shrimp -<br>Crangon crangon          | 48 hours |
|                                                                       | -    | Acute LC50 1250000<br>ug/L Marine water | Fish - Inland silverside -<br>Menidia beryllina - 40<br>to 100 mm         | 96 hours |
|                                                                       | -    | Acute EC50 4.53 mg/L<br>Fresh water     | Crustaceans - Water flea<br>- Ceriodaphnia dubia -<br>Neonate - <24 hours | 48 hours |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | -    | Acute EC50 5.36 mg/L<br>Fresh water     | Crustaceans - Water flea<br>- Ceriodaphnia dubia -                        | 48 hours |

Product code ZU0856

## Safety Data Sheet

Product Name Industrial Purple Cleaner and  
Degreaser Concentrate

|   |                                     |                                                                                                  |
|---|-------------------------------------|--------------------------------------------------------------------------------------------------|
| - | Acute EC50 2686 ug/L<br>Fresh water | Neonate - <24 hours<br>Daphnia - Water flea - 48 hours<br>Daphnia magna -<br>Neonate - <24 hours |
| - | Acute LC50 8500 ug/L<br>Fresh water | Fish - Fathead minnow - 96 hours<br>Pimephales promelas                                          |

**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                                                                               |
|---------------------------|-----------|---------------------------------------------------------------|---------|-----|-------------------------------------------------------------------------------------|
| <b>DOT Classification</b> | UN3266    | Corrosive liquid, Basic, Inorganic, NOS (sodium hydroxide)    | 8       | II  |  |
| <b>TDG Classification</b> | UN3266    | Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide) | 8       | II  |  |
| <b>IMDG Class</b>         | UN3266    | Corrosive liquid, basic, inorganic, n.o.s. (sodium hydroxide) | 8       | II  |  |

**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**

Butoxyethanol; Butyl Cellosolve; 2-butoxyethanol

**Clean Water Act (CWA) 311:** sodium hydroxide;

**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**

None of the components are listed.

**Canada****WHMIS (Canada)**

Class D-1A: Material causing immediate and serious toxic effects (Very toxic).  
Class E: Corrosive material

**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.