

# Safety Data Sheet



Superior Solutions

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** PLUS E  
**Product use** General Purpose Cleaner  
**Product code** 0588  
**Date of issue** 07/30/13 **Supersedes** 04/23/08

## 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

Compliance Services  
1420 Seaboard Industrial Blvd.  
Atlanta, GA 30318

## Section 2. Hazards Identification

### Emergency overview

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

CAUTION !

CAUSES EYE IRRITATION.



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

Eye contact.

#### Eyes

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

#### Skin

No known acute effects of this product resulting from skin contact. Prolonged or repeated contact may dry skin and cause irritation.

#### Inhalation

No known acute effects of this product resulting from inhalation.

#### Ingestion

No data on acute toxicity of the product when ingested.

### Chronic effects

Prolonged or repeated contact may dry skin and cause irritation.

### Carcinogenicity

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

### Product/ingredient name

ACGIH

IARC

EPA

NIOSH

NTP

OSHA

2,2',2''-nitrilotriethanol

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Additional Information: See Toxicological Information (Section 11)

## Section 3. Composition/Information on Ingredients

### Name of Hazardous Ingredients

### CAS number

### % by Weight

Cocamide DEA; Amides, coco, N,N-bis(hydroxyethyl)  
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts  
Benzenesulfonic acid, C10-16-alkyl derivs.  
Triethanolamine; 2,2',2''-nitrilotriethanol  
sodium chloride

68603-42-9  
68439-57-6  
68584-22-5  
102-71-6  
7647-14-5

1-5  
1-5  
1-5  
1-5  
0-1

## Section 4. First Aid Measures

### Eye Contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

### Skin Contact

Rinse with plenty of running water. If irritation persists, get medical attention.

### Inhalation

Inhalation not likely under normal use conditions.

### Ingestion

Do not induce vomiting unless directed to do so by medical personnel. 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>	Not applicable
<b>Flammable Limits</b>	Not applicable
<b>Flammability</b>	Non-combustible.
<b>Fire hazard</b>	Not applicable.
<b>Fire-Fighting Procedures</b>	Not applicable.

**Section 6. Accidental Release Measures**

**Spill Clean up** Dilute with water and mop up, 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** Avoid contact with eyes. Do not ingest. Wash thoroughly after handling.


**Storage** Keep container tightly closed. 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**

No exposure limit value known.

**Personal Protective Equipment (PPE)**

**Eyes** Recommended: Safety glasses. 

**Body** For prolonged or repeated handling, use gloves. Nitrile gloves.  
Rubber gloves.

**Respiratory** No special measures required.

**Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Liquid.	<b>Color</b>	Clear. Green. [Dark]
<b>pH</b>	8.0 - 9.0	<b>Odor</b>	Pleasant.
<b>Boiling Point</b>	104.44°C (220°F)	<b>Vapor Pressure</b>	Not determined.
<b>Specific Gravity</b>	1.03 (Water = 1)	<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 compared with Water
		<b>VOC (Consumer)</b>	0.38 % (w/w) 0.0329 lbs/gal (3.9 g/l)

**Section 10. Stability and Reactivity**

**Stability and Reactivity** The product is stable.

**Incompatibility** Slightly reactive or incompatible with the following materials: oxidizing materials and acids.

**Hazardous Polymerization** Will not occur.

**Hazardous Decomposition Products** None identified.

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

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	LD50 Dermal	Rabbit	400 to 2000 mg/kg	-
	LD50 Oral	Rat	500 to 5000 mg/kg	-
Benzenesulfonic acid, C10-16-alkyl derivs.	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	775 mg/kg	-
2,2',2"-nitrotriethanol	LD50 Oral	Rat	7.39 g/kg	-
	LD50 Oral	Rat	3000 mg/kg	-
sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

**Section 12. Ecological Information****Environmental Effects****Aquatic Ecotoxicity**

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	-	Acute EC50 4.53 mg/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
Benzenesulfonic acid, C10-16-alkyl derivs.	-	Acute EC50 5.65 mg/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
2,2',2"-nitrotriethanol	-	Acute LC50 >100000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon - Adult	48 hours
	-	Acute LC50 11800000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 30 days - 18.1 mm - 0.083 g	96 hours
	-	Chronic NOEC 16000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - <=24 hours	21 days
sodium chloride	-	Acute EC50 2430000 ug/L Fresh water	Algae - Diatom - Navicula seminulum	96 hours
	-	Acute EC50 402600 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 1042 mg/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - <24 hours	48 hours
	-	Acute LC50 1000000 ug/L Fresh water	Fish - Striped bass - Morone saxatilis - Larvae	96 hours
	-	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Water flea - Daphnia pulex	21 days
	-	Chronic NOEC 100 mg/L Fresh water	Fish - Eastern mosquitofish - Gambusia holbrooki - Adult	8 weeks

**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.	None.	-	-	
<b>IMDG Class</b>	Not available.	Not available.	Not available.	-	

**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) 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**

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

**WARNING:** This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

**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.