



Zep Commercial Sales & Service  
 1310 Seaboard Industrial Blvd.  
 Atlanta, GA 30318  
 1-888-805-HELP (4357)  
 www.zepcommercial.com

# Safety Data Sheet

## Section 1. Chemical Product and Company Identification

**Product name** Driveway, Concrete & Masonry Cleaner Concentrate  
**Product code** ZUCON  
**Date of issue** 03/21/13 **Supersedes** 10/17/12  
 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

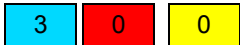
**Prepared By**  
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 1420 Seaboard Industrial Blvd.  
 Atlanta, GA 30318

## Section 2. Hazards Identification

### Emergency overview

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

**DANGER !**



CAUSES EYE AND SKIN BURNS.  
 HARMFUL IF ABSORBED THROUGH SKIN.  
 MAY BE 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

Eye contact. Absorbed through skin. Inhalation. Ingestion.

**Eyes** Severely irritating to eyes. Risk of serious damage to eyes.

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

**Inhalation** Inhalation of the spray or mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath. Inhalation of high concentrations of vapor may affect the central nervous system.

**Ingestion** Toxic if swallowed.

**Chronic effects** Contains material which may cause damage to the following organs: blood, kidneys, liver, lymphatic system, upper respiratory tract, skin, eyes, central nervous system (CNS). 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.

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

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
2-butoxyethanol	A3	3	-	-	-	-

**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
Butyl Cellosolve; Ethylene Glycol Monobutyl Ether; 2-Butoxyethanol	111-76-2	1 - 5
Fatty acids, tall-oil	61790-12-3	1 - 5
Benzenesulfonic acid, C10-16-alkyl derivs.	68584-22-5	< 5
Alkyl(C9-11) alcohol, ethoxylated	68439-46-3	< 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>	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Chemical burns must be treated promptly by a physician. Get medical attention.
<b>Inhalation</b>	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If irritation persists, get medical attention.
<b>Ingestion</b>	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. If material has been swallowed and the exposed person is conscious, give small quantities 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>	None.
<b>Flammable Limits</b>	Not applicable.
<b>Flammability</b>	Non-combustible.
<b>Fire hazard</b>	May decompose to form toxic/corrosive gases.
<b>Fire-Fighting Procedures</b>	Use an extinguishing agent suitable for the surrounding fire. Fire-fighters should wear appropriate protective equipment.

**Section 6. Accidental Release Measures**

<b>Spill Clean up</b>	Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. 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.
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**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. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Wash thoroughly after handling.
<b>Storage</b>	Store in accordance with local regulations. 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. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Keep out of the reach of children.

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

sodium hydroxide

Butyl Cellosolve; Ethylene Glycol Monobutyl Ether;  
2-Butoxyethanol**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).**Personal Protective Equipment (PPE)**

- Eyes** Splash goggles.
- Body** Wear appropriate protective clothing to prevent skin contact.  
Rubber gloves.
- Respiratory** Use with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

**Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Clear to slightly hazy liquid.	<b>Color</b>	Purple.
<b>pH</b>	13.0 - 14.0	<b>Odor</b>	Ethereal.
<b>Boiling Point</b>	100°C (212°F)	<b>Vapor Pressure</b>	Not determined.
<b>Specific Gravity</b>	1.06 (Water = 1)	<b>Vapor Density</b>	Not determined.
<b>Solubility</b>	Soluble in water in any proportion.	<b>Evaporation Rate</b>	Not determined.
		<b>VOC (Consumer)</b>	3.4 % (w/w)

**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
2-butoxyethanol	LC50 Inhalation Gas.	Rat	450 ppm	4 hours
	LD50 Dermal	Rabbit	220 mg/kg	-
	LD50 Oral	Rat	250 mg/kg	-
Fatty acids, tall-oil	LD50 Oral	Rat	>10000 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 Oral	Rat	1378 mg/kg	-

**Section 12. Ecological Information****Environmental Effects** Not available.**Aquatic Ecotoxicity**




Product/ingredient name	Test	Result	Species	Exposure
2-butoxyethanol	-	Acute EC50 >1000 mg/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute LC50 800000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon	48 hours
	-	Acute LC50 1250000 ug/L Marine water	Fish - Inland silverside - Menidia beryllina - 40 to 100 mm	96 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
	-	Acute EC50 40.38 mg/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
sodium hydroxide	-	Acute LC50 125000 ug/L Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours
	-	Acute EC50 5.36 mg/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
Alkyl(C9-11) alcohol, ethoxylated	-	Acute EC50 2686 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours
	-	Acute LC50 8500 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas	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** 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, n.o.s. (sodium hydroxide)	8	II	
<b>TDG Classification</b>	UN3266	Corrosive liquid, 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**

2-butoxyethanol

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

**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.**

**United States inventory (TSCA 8b):** Not determined.

**State Regulations****California Prop 65**

**WARNING:** This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

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

Class D-1B: Material causing immediate and serious toxic effects (Toxic).  
Class D-2B: Material causing other toxic effects (Toxic).  
Class E: Corrosive liquid.

**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.