



# Material Safety Data Sheet

## Section 1. Chemical Product and Company Identification

**Product name** Driveway, Concrete & Masonry Cleaner Concentrate  
**Product code** ZUCON  
**Date of issue** 03/15/11 **Supersedes** 11/20/07

### 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

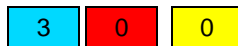
## Section 2. Hazards Identification

### Emergency overview

**DANGER !**

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

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



**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

Causes eye burns. Direct contact with the eyes can cause irreversible damage, including blindness.

#### 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

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

### 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.

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

## Section 3. Composition/Information on Ingredients

### Name of Hazardous Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
SODIUM HYDROXIDE; caustic soda; soda lye	1310-73-2	1 - 10
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	111-76-2	1 - 5
NONYLPHENOXY POLY(ETHYLENEOXY) ETHANOL - npe; poly(oxy-1,2-ethanediyl)	9016-45-9	1 - 5
alpha-(nonylphenyl)-omega-hydroxy		
DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-butoxyethoxy)-ethanol; butyl carbitol	112-34-5	1 - 5
SODIUM XYLENE SULFONATE	1300-72-7	1 - 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** 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.
- Inhalation** 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.
- Ingestion** 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.)



- Flash Point** None.
- Flammable Limits** Not applicable.
- Flammability** Non-combustible.
- Fire hazard** May decompose to form toxic/corrosive gases.
- Fire-Fighting Procedures** Use an extinguishing agent suitable for the surrounding fire. Fire-fighters should wear appropriate protective equipment.

**Section 6. Accidental Release Measures**

- Spill Clean up** 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.

**Section 7. Handling and Storage**

- Handling** 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.
- Storage** 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; caustic soda; soda lye

ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve

**Exposure limits****ACGIH TLV (United States).**CEIL: 2 mg/m<sup>3</sup>**OSHA PEL (United States).**TWA: 2 mg/m<sup>3</sup>**NIOSH REL (United States).**CEIL: 2 mg/m<sup>3</sup>**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, 1/2009).**

TWA: 20 ppm 8 hour(s).

**OSHA PEL (United States, 11/2006). Absorbed through skin.**

TWA: 50 ppm 8 hour(s).

TWA: 240 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).**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>	42 (g/l). 0.35 lbs/gal 3.98%

**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	-
ethylene glycol monobutyl ether	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	-
Nonylphenoxy poly(Ethyleneoxy)Ethano	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	3310 mg/kg	-
Diethylene glycol monobutyl ether	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
	LD50 Oral	Rat	5660 mg/kg	-

**Section 12. Ecological Information**

<b>Environmental Effects</b>	Toxic to aquatic organisms.
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**Aquatic Ecotoxicity**



Product/ingredient name	Test	Result	Species	Exposure	
Sodium Hydroxide	-	Acute LC50 25 ppm	Fish - Trout	24 hours	
	-	Acute EC50 >1000 mg/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours	
ethylene glycol monobutyl ether	-	Acute LC50 >1000 mg/L Marine water	Crustaceans - Amphipod - Chaetogammarus marinus - Young - 5 mm	48 hours	
	-	Acute LC50 1490000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 33 to 75 mm	96 hours	
	-	Acute LC50 1250000 ug/L Marine water	Fish - Inland silverside - Menidia beryllina - 40 to 100 mm	96 hours	
	-	Acute LC50 800000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon	48 hours	
	-	Chronic NOEC 1000 mg/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours	
	Diethylene glycol monobutyl ether	-	Acute LC50 2000000 ug/L Marine water	Fish - Inland silverside - Menidia beryllina - 40 to 100 mm	96 hours
		-	Acute LC50 1300000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 33 to 75 mm	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) or Consumer commodity ORM-D in Limited quantity	Class 8: Corrosive liquid.	II	
<b>TDG Classification</b>	UN3266	Corrosive liquid, n.o.s.	TDG Class 8: Corrosive liquid.	II	
<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**

ethylene glycol monobutyl ether  
Diethylene glycol monobutyl ether

**Clean Water Act (CWA) 307:** No products were found.

**Clean Water Act (CWA) 311:** Sodium Hydroxide

**Clean Air Act (CAA) 112 regulated toxic substances:** Diethylene glycol monobutyl ether

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** No products were found.

**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.