

Material Safety Data Sheet



Superior Solutions

Zep, Inc.
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1-877-I-BUY-ZEP (428-9937)
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Section 1. Chemical Product and Company Identification

Product name ZEPLIFT
Product use Laundry detergent
Product code 1324
Date of issue 06/29/10 **Supersedes** 05/31/00

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

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Horseshoe Casino
1280 Stuckey Rd SE
Elizabeth IN 47117-7723

Section 2. Hazards Identification

Emergency overview

DANGER !

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

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CAUSES EYE BURNS. CAUSES SKIN IRRITATION. HARMFUL 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

Inhalation.

- Eyes** Causes eye burns. Direct contact with the eyes can cause irreversible damage, including blindness.
- Skin** Causes skin irritation. Prolonged contact can cause severe irritation or even burns. The amount of tissue damage depends on length of contact. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.
- Inhalation** Do not breathe dust. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing.
- Ingestion** Harmful if swallowed. May cause burns to mouth, throat and stomach.

Chronic effects

Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenicity

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

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
None.						

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
SODIUM TRIPOLYPHOSPHATE, STPP	7758-29-4	30 - 40
SODIUM METASILICATE; silicic acid (H ₂ -Si-O ₃) disodium salt; water glass	6834-92-0	10 - 20
SODIUM CARBONATE; soda ash; carbonic acid, disodium salt	497-19-8	10 - 20
SODIUM BORATE; sodium tetraborate decahydrate, Borax	1303-96-4	1 - 10
NONYLPHENOXY POLY(ETHYLENEOXY) ETHANOL - npe; poly(oxy-1,2-ethanediyl) alpha-(nonylphenyl)-omega-hydroxy	9016-45-9	1 - 10

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** 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. Flush mouth and nasal passages with water repeatedly. Get medical attention.
- Ingestion** Do not induce vomiting unless directed to do so by medical personnel. 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.)



- Flash Point** Not applicable
- Flammable Limits** Not applicable
- Flammability** Not applicable.
- Fire hazard** No specific fire or explosion hazard.
- Fire-Fighting Procedures** Use an extinguishing agent suitable for the surrounding fire.

Section 6. Accidental Release Measures

- Spill Clean up** Put on appropriate personal protective equipment (see section 8). Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container.

Section 7. Handling and Storage

- Handling** Put on appropriate personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Do not breathe dust. Do not ingest. Wash thoroughly after handling. Do not reuse container. Do not use with other products.
- Storage** 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. Contains moisture-sensitive material. Store in a dry place. Keep out of the reach of children.

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

SODIUM METASILICATE; silicic acid (H₂-Si-O₃) disodium salt; water glass

SODIUM CARBONATE; soda ash; carbonic acid, disodium salt

SODIUM BORATE; sodium tetraborate decahydrate, Borax

Exposure limits**Supplier Suggested (United States).**CEIL: 2 mg/m³**ACGIH (United States).**: 15 mg/m³ Form: Dust**OSHA PEL (United States).**TWA: 15 mg/m³ 8 hour(s). Form: Total dust**OSHA PEL 1989 (United States, 3/1989).**TWA: 10 mg/m³ 8 hour(s).**NIOSH REL (United States, 6/2009).**TWA: 5 mg/m³ 10 hour(s).**ACGIH TLV (United States, 1/2009).**TWA: 2 mg/m³ 8 hour(s).STEL: 6 mg/m³ 15 minute(s).**Personal Protective Equipment (PPE)**

- Eyes** Splash goggles.
- Body** Wear appropriate protective clothing to prevent skin contact.
Recommended: Rubber gloves. Neoprene gloves. Nitrile gloves.
Synthetic apron.
- Respiratory** Use with adequate ventilation. If dust is generated and ventilation is inadequate, use NIOSH certified respirator that will protect against dust/mist.

**Section 9. Physical and Chemical Properties**

- Physical State** Solid. [Powder.]
- pH** 11.2 - 11.8 [1% solution]
- Boiling Point** Not applicable
- Specific Gravity** Not applicable.
- Solubility** Soluble in cold water and hot water.

Color White.

Odor Odorless.

Vapor Pressure Not applicable

Vapor Density Not applicable

Evaporation Rate Not applicable.

VOC (Consumer) Not applicable

Section 10. Stability and Reactivity

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

Section 11. Toxicological Information**Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
disodium metasilicate	LD50 Oral	Mouse	770 mg/kg	-
	LD50 Oral	Rat	>1000 mg/kg	-
	LD50 Oral	Rat	1153 mg/kg	-
SODIUM CARBONATE	LD50 Oral	Rat	2800 mg/kg	-
Sodium Borate	LD50 Oral	Rat	2660 mg/kg	-
Nonylphenoxypoly(Ethyleneoxy)Ethanol	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	3310 mg/kg	-

Section 12. Ecological Information

Environmental Effects	Not available.
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Aquatic Ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
SODIUM CARBONATE	-	Acute EC50 199.82 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	-	Acute LC50 300 mg/L	Fish - Bluegill.	96 hours
	-	Acute LC50 265 mg/L	Daphnia	96 hours
	-	Acute LC50 1640000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute LC50 1020000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - <24 hours	48 hours
	-	Acute LC50 <850000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 1 to 7 days	96 hours
	-	Acute LC50 740000 ug/L Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours
	-	Acute LC50 565000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 320000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 5.3 to 7.2 cm - 3.5 to 3.9 g	96 hours
	-	Acute LC50 265000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 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 Non-hazardous waste

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	Not regulated.	Not a DOT controlled material (United States).			
IMDG Class	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:

No products were found.

Clean Water Act (CWA) 307: 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 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.