

Material Safety Data Sheet

Armor All Professional
A Unit of Zep, Inc.
1310 Seaboard Industrial Blvd.
Atlanta, GA 30318
1-866-ARMORALL (1-866-276-6725)

Section 1. Chemical Product and Company Identification

Product name POWDERED ALKALINE PRESOAK
Product use Vehicle Wash Detergent.
Product code H414
Date of issue 07/13/10 **Supersedes** 08/08/01
Not available.

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

Printing date: 07/13/10

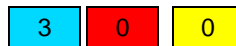
Section 2. Hazards Identification

Emergency overview

DANGER! POISON

CAUSES EYE, SKIN AND MUCOUS MEMBRANE BURNS.

*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

Inhalation. Ingestion.

Eyes

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

Skin

Corrosive to skin on contact. Skin contact may produce burns. The amount of tissue damage depends on length of contact.

Inhalation

Harmful by inhalation. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Medical conditions aggravated by over-exposure
Respiratory

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: lungs, upper respiratory tract.

Carcinogenicity

No known significant effects or critical hazards.

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

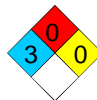
	CAS number	% by Weight
SODIUM HYDROXIDE; caustic soda; soda lye	1310-73-2	25 - 35
SODIUM TRIPOLYPHOSPHATE, STPP	7758-29-4	25 - 35
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE; tetrasodium ethylenedinitrilo tetra-acetate; edta	64-02-8	5 - 15
SODIUM CARBONATE; soda ash; carbonic acid, disodium salt	497-19-8	5 - 15
PROPRIETARY TERMINATED ALKYL ARYL ETHER NONIONIC SURFACTANT	Proprietary	1 - 5

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. 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. Clean shoes thoroughly before reuse. Get medical attention immediately.
Inhalation	If inhaled, remove 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 available.
Flammable Limits	Not available.
Flammability	Not available.
Fire hazard	May emit toxic fumes under fire conditions.
Fire-Fighting Procedures	Do not use water or foam. 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). Sweep up and place in suitable clean, dry containers for reclamation or later disposal. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
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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 ingest. Avoid breathing dust. Wash contaminated clothing before reusing. Wash thoroughly after handling.
Storage	Keep container tightly closed and dry. Store away from incompatible materials. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Keep out of the reach of children. Aluminum tanks or containers not acceptable. Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc.

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

SODIUM HYDROXIDE; caustic soda; soda lye

Exposure limits

ACGIH TLV (United States).

CEIL: 2 mg/m³ Form: Dust

ACGIH TLV (United States, 1/2009).

C: 2 mg/m³

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

CEIL: 2 mg/m³

NIOSH REL (United States, 6/2009).

CEIL: 2 mg/m³

OSHA PEL (United States, 11/2006).

TWA: 2 mg/m³ 8 hour(s).

SODIUM CARBONATE; soda ash; carbonic acid, disodium salt

ACGIH (United States).

: 15 mg/m³ Form: Dust

OSHA PEL (United States).

TWA: 15 mg/m³ 8 hour(s). Form: Total dust

ACGIH TLV / OSHA PEL (United States).

TWA: 1 ppm 8 hour(s).

OSHA PEL (United States).

STEL: 5 ppm 15 minute(s).

PROPRIETARY TERMINATED ALKYL ARYL ETHER
NONIONIC SURFACTANT**Personal Protective Equipment (PPE)**

Eyes	Face shield. Splash goggles.
Body	Chemical-resistant gloves (Nitrile, Neoprene, Rubber). Chemical-resistant apron. Chemical resistant boots. Alkaline resistant protective clothing.
Respiratory	Use with adequate ventilation.



Section 9. Physical and Chemical Properties

Physical State	Solid. [Powder.]	Color	Yellow / Orange.
pH	12.2 - 12.6 [Conc. (% w/w): 1%]	Odor	Mild.
Boiling Point	Not applicable	Vapor Pressure	Not applicable
Specific Gravity	Not applicable	Vapor Density	Not applicable
Solubility	Easily soluble in the following materials: cold water and hot water.	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, metals and acids. Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc.
Hazardous Polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.
Hazardous Decomposition Products	carbon oxides (CO, CO ₂) and oxides of phosphorous

Section 11. Toxicological Information**Acute Toxicity**

Not available.

Section 12. Ecological Information**Aquatic Ecotoxicity**


Product/ingredient name	Test	Result	Species	Exposure
SODIUM HYDROXIDE	-	Acute EC50 40.38 mg/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	-	Acute LC50 196 mg/L Marine water	Fish - Guppy - Poecilia reticulata - Young - 3 to 4 weeks	96 hours
	-	Acute LC50 125000 ug/L Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours
	-	Acute LC50 33000 to 100000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon - Adult	48 hours
	-	Chronic NOEC 56 mg/L Marine water	Fish - Guppy - Poecilia reticulata - Young - 3 to 4 weeks	96 hours
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 Code: D002
 Classification: - (Hazardous waste.)
 Origin: - (RCRA waste.)

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	3262	Corrosive solid, basic, inorganic, n.o.s. (SODIUM HYDROXIDE)	8	-	

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: Sodium Hydroxide; Sodium Tripolyphosphate

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 or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.: Benzyl chloride; 1,4-Dioxane

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.