

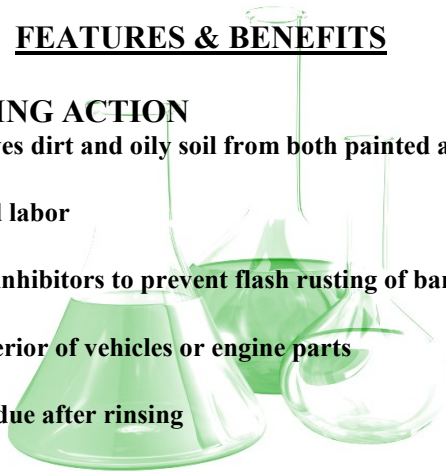


# Z-BLEND

**Z-Blend** is a liquid product specifically formulated to clean agricultural and construction equipment as well as vehicles and engine parts. It can be used with a pressure washer or brush and bucket. It is an excellent detergent and degreaser. **Z-Blend** includes rust inhibitors to prevent flash rusting of bare metal surfaces.

## FEATURES & BENEFITS

- **POWERFUL CLEANING ACTION**  
Quickly removes dirt and oily soil from both painted and unpainted surfaces
- **ECONOMICAL**  
Saves time and labor
- **SAFE**  
Contains rust inhibitors to prevent flash rusting of bare metal or engine parts
- **VERSATILE**  
Cleans the exterior of vehicles or engine parts
- **FREE RINSING**  
Leaves no residue after rinsing



## DIRECTIONS

**Pressure Washing:** When pressure washing, use a chemical injector that dilutes **Z-Blend** at a ratio of 1:10 to 1:30.

**Temperature:** **Z-Blend** will remove soil at all temperatures. **However higher temperatures will greatly improve performance.**

**For Best Results:** Apply at high temperatures (140° - 160°F) and high pressure (above 600 psi), to a dry surface. Always rinse with high-pressure water.

1. Spray the diluted **Z-Blend** on the surface to be cleaned, working from bottom to top to avoid streaking.
2. Rinse thoroughly with high-pressure water, working from top to bottom.
3. Hold pressure nozzle 12" from vehicle or equipment surface

**General Cleaning:** **Z-Blend** can be used with a bucket and brush for cleaning floors, walls, vehicles and concrete surfaces. Dilute **Z-Blend** with water at a ratio of 1:10 to 1:30, depending on soil level.

**NOTE:** See reverse side for MSDS information and General Cautions for Use

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# MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

## SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**Identity (As Used on Label and List):** Z-Blend  
**Product Class:** Water-based cleaner  
**Emergency Telephone Number:** 800-535-5053 (INFOTRAC)  
**Telephone Number for Information:** 763-509-7937  
**Manufactured by:**  
Ver-Tech Labs  
6801 Bleck Drive  
Rockford, MN 55373

## SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous Components (Specific Chemical Identity):

Chemical	Common Name(s)
A	Sodium Metasilicate CAS #9004-82-4
B	Sodium Silicate CAS #1344-09-8
C	Surfactant Proprietary blend
D	2-butoxy ethanol CAS #111-76-2
E	Sodium Xylene Sulfonate CAS #1300-27-7
F	Water CAS #7732-18-5

## SECTION III - HAZARDS IDENTIFICATION

### Emergency Overview

**Appearance and Odor:** Green liquid, mild odor.

**Primary Hazards:** Irritant

### Potential Health Hazards

**Route(s) of Entry:** Skin Absorption: X Ingestion: X Inhalation: X

**Eye:** May cause irritation or burns on contact.

**Skin:** May cause irritation or burns on contact.

**Ingestion:** May be harmful if swallowed.

**Inhalation:** Overexposure to 2-butoxy ethanol may cause damage.

**Signs and Symptoms of Exposure:** Eye Contact: Possible burning, tearing, redness and corneal damage. Skin Contact: Possible slippery feeling, redness, swelling and burns. Symptoms may be delayed.

**Carcinogenicity:** NTP? No IARC Monographs? No

**OSHA Regulated?** No

**Target Organ (s):** Eyes, skin. See health hazards, chronic.

**Medical Conditions Generally Aggravated by Exposure:** N. Av.

**Health Hazards, Chronic:** Overexposure to chemical D, Section II may cause damage to liver, kidneys, lymphoid system, skin blood, eyes, and respiratory system.

## SECTION IV - FIRST AID MEASURES

### Emergency and First Aid Procedures:

**If Swallowed:** Do not induce vomiting. Drink water in large amounts and call a physician immediately. Never give anything by mouth to an unconscious person. **Eye Contact:** Flush eyes with running water for at least 15 minutes. Obtain medical attention. **Skin Contact:** Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse.

**Sources Used:** Raw material data, general toxicology from the trade for similar products.

## SECTION V - FIRE FIGHTING MEASURES

**Flammability:** No **Autoignition Temperature:** N. Av.

**Flash Point (method used):** None

**Flammable Limits:** N. Av.

LEL UEL

**Extinguishing Media:** N. Av.

Water?

Foam?

Water Fog?

Alcohol Foam?

CO<sub>2</sub>?

Dry Chemical?

Vaporizing Liquid?

Other?

**Special Fire Fighting Procedures:** N. Av.

**Unusual Fire and Explosion Hazards:** N. Av.

**TDG Flammability Classification:** Non-flammable

**Sensitivity to Mechanical Impact:** None

**Sensitivity to Static Discharge:** None

## SECTION VI - ACCIDENTAL RELEASE MEASURES

### Steps to be Taken in Case Material is Released or Spilled:

Dike and contain spill with inert material (sand, earth, etc). Collect spill with mop, absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area with water.

## SECTION VII - HANDLING AND STORAGE

### Precautions to be Taken in Handling and Storing:

Normal care in handling and storage.

**Other Precautions:** Keep out of reach of children. Keep from freezing.

## SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection (Specify Types):** Dust/mist respirator is recommended when spraying product.

**Ventilation: Local Exhaust:** Not required **Special:** Not required

**Mechanical (General):** Normal good ventilation sufficient. **Other:** Not required

**Protective Gloves:** Natural rubber or synthetic.

**Eye Protection:** Approved safety goggles or glasses. **Footwear:** Not required

**Other Protective Clothing or Equipment:** Not required

**Work/Hygiene Practices:** Do not contaminate food or beverages with cleaning chemicals.

## SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

**Boiling Point:** Approximately 212°F **pH:** < 12.0

**Specific Gravity (H<sub>2</sub>O) = 1:** 1.07

**Vapor Density (Air = 1):** N. Av.

**Odor Threshold:** N. Av.

**Evaporation Rate (Butyl Acetate = 1):** N. Av.

**Oil/Water Distribution**

**Solubility in Water:** Complete

**Coefficient:** N. Av.

**Vapor Pressure (MM HG):** N. Av.

**Melting Point:** N. Av.

## SECTION X - STABILITY AND REACTIVITY

**Stability:** Unstable: Stable: X

**Conditions to Avoid:** N. Av.

**Incompatibility (materials to avoid):** N. Av.

**Hazardous Decomposition or By-products:** N. Av.

**Hazardous Polymerization:** May occur:

**Will not occur:** X

**Conditions to Avoid:** N. Av.

## SECTION XI - TOXICOLOGICAL INFORMATION

Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50
A	2 mg/M3	2 mg/M3	N. Av.	800 mg/kg (rat, oral)	N. Av.
B	N. Av.	N. Av.	N. Av.	>2000 mg/kg (rat, oral)	N. Av.
C	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.
D	25 ppm	25 ppm	N. Av.	140-340 gm/kg (rat)	N. Av.
E	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.
F	N. Av.	N. Av.	N. Av.	N. Av.	N. Av.

**Teratogen, Mutagen, Reproductive Toxin Status:** No

**Toxicologically Synergistic Products:** N. Av.

## SECTION XII - ECOLOGICAL INFORMATION

**Ecotoxicological Information:** N. Av.

**Chemical Fate Information:** N. Av.

## SECTION XIII - DISPOSAL CONSIDERATIONS

### Waste Disposal Method:

Dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewer, depending on the materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations.

**RCRA Hazard Class:** N. Av.

## SECTION XIV - TRANSPORT INFORMATION

**Shipping Classification:** Corrosive liquid, basic, inorganic, n.o.s. (sodium metasilicate)  
Class: 8

**UN Number:** UN 3266.

**Packing Group:** II

## SECTION XV - PREPARATION DATA

**Prepared By:** Health and Safety Department

**Telephone Number:** 763-509-7937

**Date:** 10-11-2007

## SECTION XVI - REGULATORY INFORMATION

### US Federal Regulations

**TSCA Status:** All ingredients listed.

**CERCLA Reportable Quality:** N. Av.

### SARA Title III

**Section 302 Extremely Hazardous Chemicals:** None

**Section 311/312 Hazard Category:** Immediate health hazard

**Section 313 Toxic Chemicals:** 2-butoxy ethanol (glycol ether)

## SECTION XVII - OTHER INFORMATION

None

N. Av. - Not Applicable; N. Av. - Not Available

## NFPA SYSTEM

2 A. Health Hazard 0 A. Fire Hazard 0 A. Reactivity Hazard

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