

Safety Data Sheet

Product Trade Name: Z SHIELD™ 2500

*** Section 1 - Chemical Product and Company Identification ***

Product Trade Name: **Z SHIELD™ 2500** REVISION DATE JAN 18 2016

Manufacturer Information



Z TECHNOLOGIES CORP.
26500 Capitol Avenue
Redford, Michigan 48239
Corporate Emergency Telephone: 1-313-937-0710
DUNS # 006-006-019
Website: www.ztechprotection.com

For Chemical Emergency; Spill, Leak, Fire, Exposure, or Accident:
Call CHEMTREC Day or Night within USA and CANADA: CHEMTREC 1-800-424-9300
Outside USA and CANADA: 1-703-527-3887 (collect calls accepted)
CHEMTREC Customer # CCN649135

This Safety Data Sheet (SDS) has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (CFR 29 1910.1200).US

*** Section 2 - Hazards Identification ***

Emergency Overview:

WARNING! - Contact with this material can cause severe irritation to the skin, eyes and mucous membranes.

Eye Contact:

This product is irritating to the eyes.

Skin Contact:

This product is irritating to the skin. Contact with the skin or mucous membranes may cause irritation.

Skin Absorption:

Components of this product may be absorbed through the skin.

Ingestion:

This product will cause irritation to the throat, esophagus, and gastrointestinal tract if it is swallowed. Ingestion may cause diarrhea, nausea and vomiting.

Inhalation:

Inhalation of mists of this product may cause irritation to the nasal passages and respiratory tract. Inhalation may cause headaches, nausea and dizziness after prolonged exposure

Medical Conditions Aggravated by Exposure:

Pre-existing skin, and respiratory disorders may be aggravated by exposure.

Hazards other: Airless Spray Injection Harard! See Equipment Warnings.
Empty container may explode upon welding!

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Hazardous Material Information System (U.S.A.)

HEALTH	*	1
Flammability		0
Physical hazards		0
PERSONAL PROTECTION		

The PPE (Personal Protection Equipment) designation in the HMIS is provided for use by employees at supplier sites only. Other users of this product are encouraged to evaluate the hazards of the product and assign PPE that is applicable to their specific situations.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program.

HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
	No hazardous Ingredients above mandated threshold for reporting	

Additional Information:

This product is not considered hazardous as defined by 29 CFR 1910.1200 (Hazard Communication).

*** Section 4 - First Aid Measures ***

Eye Contact:

If this chemical contacts the eyes, immediately wash the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. Do not wear contact lenses when working with this chemical.

Skin Contact:

If this chemical contacts the skin, flush the contaminated skin with water promptly. If this chemical penetrates the clothing, immediately remove the clothing and flush the skin with water promptly. If irritation persists or develops after washing, get medical attention.

SKIN INJECTION HAZARD

Spray from an airless spray tip, airless hose leaks or ruptured airless components can inject fluid into your body and cause extremely serious injury, including the need for amputation. Fluid injected into the skin might look like just a cut, but it is a serious injury. Get immediate surgical attention.

Ingestion:

If this chemical has been swallowed, get medical attention immediately. Give victim several glasses of water to drink. Vomiting may occur spontaneously; do not induce vomiting. Do not give anything by mouth to an unconscious person.

Inhalation:

If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. Other measures are usually unnecessary. If breathing difficulty persists or develops, get prompt medical attention.

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First Aid: Notes to Physician

No additional information is available.

*** Section 5 - Fire Fighting Measures ***

Flash Point:	240 °F	Upper Flammable Limit (UFL):	Not applicable
Flammability Classification:	Nonflammable	Lower Flammable Limit (LFL):	Not applicable

Fire & Explosion Hazards:

None expected.

Extinguishing Media:

Use dry chemical, foam, carbon dioxide, and/or water fog.

Fire-Fighting Instructions:

Firefighters: Wear full protective clothing including self-contained breathing apparatus. Properly decontaminate all equipment after use.

*** Section 6 - Accidental Release Measures ***

Containment and Clean up procedures must be conducted in accordance with all local, state, and federal regulations.

Containment Procedures:

Stop the flow of material, if this can be done without risk. Wear appropriate protective equipment and clothing during clean up.

Clean-Up Procedures:

Absorb spill with inert material and transfer material into appropriate container(s) for disposal. Dispose of collected material according to local, state, and federal regulations

*** Section 7 - Handling and Storage ***

Handling Procedures:

Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Use with adequate ventilation. This product is for industrial use only. Do not take internally.

Storage Procedures:

Freezing ruins this product. Keep container tightly closed when not in use. Store in a cool, well-ventilated area away from incompatible materials.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines:

A: General Product Information

Follow all applicable exposure limits. Keep formation of airborne mists to a minimum.

B: Component Exposure Limits

Engineering Controls:

Set up ventilation to effectively remove and prevent buildup of any vapor or mist generated from the handling of this product.

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face Protective Equipment:

Wear appropriate eye protection to prevent eye contact.

Skin Protection:

Wear appropriate personal protective clothing to prevent skin contact. The worker should immediately wash the skin when it becomes contaminated.

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Respiratory Protection:

If ventilation is not sufficient to effectively prevent buildup of mists or vapors, provide appropriate NIOSH/MSHA respiratory protection.

Personal Protective Equipment:

Provide eyewash fountains in areas where there is any possibility that workers could be exposed to the substance; this is irrespective of the recommendation involving the wearing of eye protection. Provide facilities for quickly drenching the body within the immediate work area for emergency use where there is a possibility of exposure. Depending on the specific circumstances, a deluge shower, a sink or hose could be considered adequate.

*** Section 9 - Physical & Chemical Properties ***

Physical State:	Liquid	Appearance:	clear
Odor:	Mild Ammonia	Vapor Pressure:	0.29 mmHg
Vapor Density:	> 1.0	Boiling Point:	>212 °F (100 °C)
Specific Gravity:	1.05	Freezing Point:	ND (close to 0C)
Viscosity:	ND	pH:	8.5
Solubility in Water:	Dispersible	VOC:	0.0 lb/gal
Percent Volatile:	47 b.w.	Evaporation Rate:	Slower than Butyl Acetate
		Percent Solids:	53 nvm

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability:

Stable under normal conditions.

Conditions to Avoid:

Keep away from excessive heat and incompatible materials. **FREEZING RUINS THIS PRODUCT!**

Incompatibility:

Do not expose this product to strong oxidizers or strong acids.

Decomposition Products:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons, hazardous organic compounds, and toxic vapors.

Hazardous Polymerization:

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Toxicity:

A: General Product Information

No information is available for the product.

B: Component Analysis - LD50/LC50

Carcinogenicity:

A: General Product Information

No information is available for the product.

B: Component Carcinogenicity

None of this product's components are on IARC or NTP lists.

Chronic Toxicity

No information is available for the product.

*** Section 12 - Ecological Information ***

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Ecotoxicity:

A: General Product Information

No data is available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Environmental Fate:

No data is available for this product.

*** Section 13 - Disposal Considerations ***

Wastes must be tested using methods described in 40 CFR Part 261. It is the generator's responsibly to determine if the waste meets applicable definitions of hazardous wastes. State and local regulations may differ from Federal disposal regulations. Dispose of waste material according to Local, State, Federal and Provincial Environmental Regulations.

*** Section 14 - Transportation Information ***

US DOT Information

Proper Shipping Name	Not DOT Regulated
Hazard Class	
UN / NA Number	
Packing Group	
Product RQ (lb)	

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

No additional information is available.

B: Component Analysis

This material contains one or more of the following chemicals, requiring identification under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

SARA 311/312: Acute: NO Chronic: NO Fire: No Pressure: No Reactive: No

State Regulations

A: General Product Information

No information is available.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Other Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis – Inventory

All components are on the U.S. EPA TSCA Inventory List and Domestic Substance List-Canada.

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

*** Section 16 – Other Information ***

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NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0 Other:
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

HMIS Ratings: Health: 1 Fire: 0 Reactivity: 0 Personal Protection:
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Key/Legend:

ACGIH = American Conference of Governmental Industrial Hygienists	NFPA = National Fire Protection Association
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act	NIOSH = National Institute for Occupational Safety and Health
EPA = Environmental Protection Agency	NTP = National Toxicology Program
HMIS = Hazardous Material Identification System	OSHA = Occupational Safety and Health Administration
IARC = International Agency for Research on Cancer	SARA = Superfund Amendments and Reauthorization Act
MSHA = Mine Safety and Health Administration	TSCA = Toxic Substance Control Act

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Z Technologies Corporation bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

Contact: Regulatory Affairs Z Shield™ is a registered trademark of Z Technologies Corporation
Contact Phone: 313 937 0710

This is the end of SDS for Z Shield™ 2500