



ENFORCER Products, Inc.
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Cartersville, GA 30120
1-888-805-HELP

Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name **Zep Pine Disinfectant & Cleaner**

Product Code **ZPDC128**

Date of issue **02/13/04** **Supersedes** 02/04/03

This product is a registered pesticide. Number:
6836-87-40849

Emergency Telephone Numbers **For MSDS Information:**
Compliance Services (404) 352-1680

For a Medical Emergency:
INFOTRAC
(877) 541-2016 (Toll Free - Calls Recorded)

For a Transportation Emergency:
CHEMTREC
(800) 424-9300 (Toll Free - Calls Recorded)

Prepared by Compliance Services Group
Acuity Specialty Products Group
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
ISOPROPYL ALCOHOL; ipa; dimethylcarbinol; 2-propanol	67-63-0	5-15	ACGIH TLV (United States). TWA: 200 ppm 8 hour(s). OSHA PEL (United States). TWA: 400 ppm 8 hour(s). ACGIH/OSHA (United States). STEL: 400 ppm 15 minute(s).
PINE OIL	8002-09-3	1-5	Not established
QUATERNARY AMMONIUM CHLORIDES; Blend of N,N-didecyl-N, N-dimethylammonium chloride; Alkyl dimethylbenzylammonium chloride; ethanol	7173-51-5; 8001-54-5; 64-17-5	<5	Not established

Section 3. Hazards Identification

Acute Effects **Routes of Entry** Dermal contact. Eye contact. Ingestion.

Skin Hazardous in case of skin contact (corrosive, irritant). Skin contact may produce burns. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Eyes Hazardous in case of eye contact (irritant, corrosive). Corrosive to the eyes.

Inhalation Avoid breathing vapors or spray mists. Over-exposure by inhalation may cause respiratory irritation.

Ingestion Hazardous in case of ingestion. Harmful if swallowed. May be fatal if swallowed.

Carcinogenic Effects Not listed as carcinogen by OSHA, NTP or IARC.

Chronic Effects Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

See Toxicological Information (section 11)

HMIS

Health	1
Fire Hazard	3
Reactivity	0
Personal Protection	B

Section 4. First Aid Measures


Eye Contact Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.

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. Get medical attention.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Closed cup: 32.7°C (91°F).	Flammable Limits LOWER: 1% UPPER: 12%	
Flammability	Flammable in presence of open flames, sparks and static discharge, of oxidizing materials.		
Fire Hazard	Vapor may cause flash fire. Avoid all possible sources of ignition (spark or flame).		
Fire-Fighting Procedures	Use DRY chemicals, CO ₂ , water spray or foam.		


Section 6. Accidental Release Measures

Spill Clean up	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
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Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Use only with adequate ventilation. Keep away from food, drink and animal feeding stuffs. Do not reuse product container. Observe label precautions.
Storage	Keep container tightly closed and sealed until ready for use. Keep container in a cool, well-ventilated area. Avoid all possible sources of ignition (spark or flame). Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection**Personal Protection****Protective Clothing (Pictograms)**

Eyes	Wear protective eyeglasses or chemical safety goggles and face protection.	
Body	Rubber gloves.	
Respirator	Avoid breathing vapors or spray mists. Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use.	

Section 9. Physical and Chemical Properties

Physical State	Liquid.	Color	Clear.
pH	6.0 - 7.0	Odor	Pine
Boiling Point	Not determined.	Vapor Pressure	Not determined.
Specific Gravity	0.99 (Water = 1)	Vapor Density	Not determined.
Solubility	Easily soluble in cold water, hot water.	Evaporation Rate	1 compared to Water
		VOC (Consumer)	100 (g/l).

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive with oxidizing agents and open flames and sparks.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	These products are carbon oxides (CO, CO ₂) and other organic materials.

Section 11. Toxicological Information

Toxicity to Animals	Isopropyl Alcohol:
	ORAL (LD50): Acute: 5045 mg/kg [Rat].
	Pine Oil:
	ORAL (LD50): Acute: 4300 mg/kg [Rat].
	DERMAL (LD50): Acute: 3000 mg/kg [Rabbit].
	Quaternary Ammonium Chlorides:
	ORAL (LD50): Acute: 366 mg/kg [Rat].
	DERMAL (LD50): Acute: 204 mg/kg [Rat]. 645 mg/kg [Rat].

Section 12. Ecological Information

Ecotoxicity	Not available.
Biodegradable/OE	Not available.

Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream	Non-regulated waste
Consult your local or regional authorities.	

Section 14. Transport Information

Proper shipping name	None.
DOT Classification	Not a DOT controlled material (United States).
UN number	Not applicable.
TDG Classification	Not a TDG controlled material.

Section 15. Regulatory Information

U.S. Federal Regulations	SARA 313 toxic chemical notification and release reporting: 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.
State Regulations	California prop. 65: No products were found.
WHMIS (Canada)	Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). Class D-2B: Material causing other toxic effects (TOXIC).

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.*