

Safety Data Sheet



Zep, Inc.
1310 Seaboard Industrial Blvd.
Atlanta, GA 30318
1-877-I-BUY-ZEP (428-9937)
www.zep.com

Section 1. Chemical Product and Company Identification

Product name ZEP PEROXY-SERVE 5
Product use Microbiocide
Product code 2732
Date of issue 12/12/12 **Supersedes** 09/28/12

This product is a registered pesticide. EPA Registration Number: 63838-1-1270

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

Section 2. Hazards Identification

Emergency overview

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

DANGER!



CAUSES EYE AND SKIN BURNS. MAY BE FATAL IF ABSORBED THROUGH SKIN. VAPOR HARMFUL. HARMFUL IF SWALLOWED.

Strong oxidizer Observe label precautions.: Physical and chemical properties

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

Dermal contact. Eye contact. Inhalation.

Eyes

Causes eye burns. Eye exposure may cause severe and permanent eye injury (blindness). Inflammation of the eye is characterized by redness, watering and itching.

Skin

Causes skin burns. May be fatal if absorbed through the skin. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.

Inhalation

Do not breathe vapor or spray. May be fatal if inhaled. Material is irritating to mucous membranes and upper respiratory tract. Exposure can cause coughing, chest pains and difficulty in breathing.

Ingestion

Harmful if swallowed. May cause burns to mouth, throat and stomach.

Chronic effects

Contains material which may cause damage to the following organs: digestive system, upper respiratory tract, skin, eyes.

Carcinogenicity

No known significant effects or critical hazards.

Product/ingredient name

Not available.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

hydrogen peroxide
acetic acid
peracetic acid

CAS number

7722-84-1
64-19-7
79-21-0

% by Weight

26.5
1 - 10
5.6

Section 4. First Aid Measures

- Eye Contact** Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Call medical attendant, medical doctor, or poison control center.
- Skin Contact** Remove contaminated clothing and shoes. Flush affected area immediately with large amounts of water for at least 15 minutes. Call medical attendant, medical doctor, or poison control center.
- Inhalation** Move exposed person to fresh air. If breathing is difficult, Get medical attention. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call medical attendant, medical doctor, or poison control center.
- Ingestion** Call medical doctor or poison control center immediately. If affected person is conscious, give plenty of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A.)



- Flash Point** Closed cup: 93.333°C (200°F)
- Flammable Limits** Not available.
- Flammability** Not available.
- Fire hazard** Substance releases oxygen when heated, which may increase the severity of an existing fire. In a fire or if heated, a pressure increase will occur and the container may burst.
- Fire-Fighting Procedures** Use flooding quantities of water.

Section 6. Accidental Release Measures

- Spill Clean up** Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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 vapor or mist. Do not ingest. Do not use with other products. Apply this product only as specified on the label. Wash thoroughly after handling. Do not reuse container.
- 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. Keep out of the reach of children.

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

hydrogen peroxide

Exposure limits

ACGIH TLV (United States, 2/2010).

TWA: 1 ppm 8 hour(s).

TWA: 1.4 mg/m³ 8 hour(s).

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

TWA: 1 ppm 8 hour(s).

TWA: 1.4 mg/m³ 8 hour(s).

NIOSH REL (United States, 6/2009).

TWA: 1 ppm 10 hour(s).

TWA: 1.4 mg/m³ 10 hour(s).

OSHA PEL (United States, 6/2010).

TWA: 1 ppm 8 hour(s).

TWA: 1.4 mg/m³ 8 hour(s).

acetic acid

ACGIH TLV (United States, 2/2010).

TWA: 10 ppm 8 hour(s).

TWA: 25 mg/m³ 8 hour(s).

STEL: 15 ppm 15 minute(s).

STEL: 37 mg/m³ 15 minute(s).

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

TWA: 10 ppm 8 hour(s).

TWA: 25 mg/m³ 8 hour(s).

NIOSH REL (United States, 6/2009).

TWA: 10 ppm 10 hour(s).

TWA: 25 mg/m³ 10 hour(s).

STEL: 15 ppm 15 minute(s).

STEL: 37 mg/m³ 15 minute(s).

OSHA PEL (United States, 6/2010).

TWA: 10 ppm 8 hour(s).

TWA: 25 mg/m³ 8 hour(s).**Personal Protective Equipment (PPE)**

Eyes Face shield. and Splash goggles.

Body Wear appropriate protective clothing to prevent skin contact.
Recommended: Rubber gloves. Vinyl gloves. Synthetic apron.
Chemical resistant boots.



Respiratory Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate.

Section 9. Physical and Chemical Properties

Physical State Liquid.

pH <1 [Conc. (% w/w): 10%]

Boiling Point Not available.

Specific Gravity 1.12

Solubility Easily soluble in the following materials: cold water and hot water.

Color Clear. Colorless.

Odor Pungent.

Vapor Pressure 2.9 kPa (22 mm Hg)

Vapor Density Not available.

Evaporation Rate Not available.

VOC (Consumer) 7.5 % (w/w) 0.701 lbs/gal (84 g/l)

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Keep away from heat and direct sunlight. Slightly reactive or incompatible with the following materials: oxidizing materials, organic materials and alkalis.

Hazardous Polymerization Under normal conditions of storage and use, hazardous polymerization will not occur.

Hazardous Decomposition Products carbon oxides (CO, CO₂), Acetic acid. Substance releases oxygen when heated, which may increase the severity of an existing fire.

Section 11. Toxicological Information

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
acetic acid	LC50 Inhalation Vapor	Rat	11000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	1060 mg/kg	-
	LD50 Oral	Rat	3310 mg/kg	-

Section 12. Ecological Information

Environmental Effects Toxic to: Birds. Fish. Aquatic invertebrates.

Aquatic Ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
acetic acid	-	Acute EC50 73400 ug/L Fresh water	Algae - Diatom - Navicula seminulum	96 hours
	-	Acute EC50 65000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours
	-	Acute LC50 50.1 ul/L Marine water	Crustaceans - Brine shrimp - Artemia sp.	48 hours
	-	Acute LC50 75000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 5.3 to 7.2 cm - 3.5 to 3.9 g	96 hours
hydrogen peroxide	-	Acute EC50 1.2 mg/L Marine water	Algae - Green algae - Dunaliella tertiolecta - Exponential growth phase	72 hours
	-	Acute EC50 5.38 mg/L Fresh water	Algae - Green algae - Pseudokirchneriella subcapitata	96 hours
	-	Acute EC50 2320 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours
	-	Acute LC50 22 ppm Fresh water	Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss - Juvenile (Fledgling, Hatching, Weanling)	96 hours
	-	Chronic NOEC 0.2 ppm Fresh water	Fish - common carp - Cyprinus carpio - Young	30 days

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	UN3149	Hydrogen peroxide and peroxyacetic acid mixture, with acid(s), water and not more than 6% peroxyacetic acid, stabilized	8 (5.1)	II	
IMDG Class	UN3149	Hydrogen peroxide and peroxyacetic acid mixture, with acid(s), water and not more than 6% peroxyacetic acid, stabilized	8 (5.1)	II	

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:

Product name

peracetic acid

Clean Water Act (CWA) 311: acetic acid

Clean Air Act (CAA) 112 regulated toxic substances: peracetic acid

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.