

Material 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 WRITE AWAY
Product use Cleaner.
Product code 0314
Date of issue 07/16/10 **Supersedes** 04/14/05
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

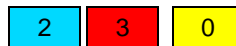
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Section 2. Hazards Identification

Emergency overview

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

DANGER!



FLAMMABLE. CAUSES EYE IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN.

Avoid contact with skin and clothing. Do not breathe vapor or mist. Do not ingest. Do not get in eyes.

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. Ingestion.

Eyes

Irritating to eyes. Inflammation of the eye is characterized by redness, watering and itching.

Skin

Harmful in contact with skin. Direct contact may cause irritation and redness. Harmful if absorbed through the skin. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.

Inhalation

Harmful by inhalation. Avoid inhalation of vapor, spray or mist. Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system (CNS) depression.

Ingestion

Harmful if swallowed. Ingestion may cause gastrointestinal irritation and diarrhea. Aspiration hazard if swallowed. Can enter lungs and cause damage.

Chronic effects

Contains material which may cause damage to the following organs: central nervous system (CNS) Overexposure of this product by inhalation or absorption can produce central nervous system depression resulting in headache, nausea and/or dizziness. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to the substance can produce target organs damage.

Carcinogenicity

Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Product/ingredient name

ACGIH

IARC

EPA

NIOSH

NTP

OSHA

Ethanol

A3

-

-

-

-

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

CAS number

% by Weight

ETHANOL; ethyl alcohol; grain alcohol

64-17-5

50 - 60

BENZYL ALCOHOL; alpha-hydroxytoluene; phenyl carbinol

100-51-6

15 - 25

D-LIMONENE; orange distillate; citrus terpene; cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)-

5989-27-5

5 - 15

BUTANE; n-Butane

106-97-8

3.25 - 10.5

PROPANE; dimethylmethane propyl hydride

74-98-6

1.5 - 5.25

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.
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 if irritation develops.
Inhalation	Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.
Ingestion	Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head lower than hips to help prevent aspiration. Never give anything by mouth to an unconscious person. 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	FLAMMABLE. (CSMA)
Fire hazard	Flammable liquid and vapor. Contains gas under pressure; may explode if heated. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
Fire-Fighting Procedures	Use dry chemical or CO ₂ . Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion. Wear special protective clothing and positive pressure, self-contained breathing apparatus.

Section 6. Accidental Release Measures

Spill Clean up Large spills are unlikely due to packaging.

Section 7. Handling and Storage

Handling	Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Do not ingest. Wash thoroughly after handling. Apply this product only as specified on the label.
Storage	CONTENTS UNDER PRESSURE. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Do not store above the following temperature: 49°C (120.2°F). S13- Keep away from food, drink and animal feeding stuffs. Do not puncture or incinerate container. Keep out of the reach of children.

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

ETHANOL; ethyl alcohol; grain alcohol

Exposure limits**NIOSH REL (United States, 6/2009).**

TWA: 1000 ppm 10 hour(s).

TWA: 1900 mg/m³ 10 hour(s).**OSHA PEL (United States, 11/2006).**

TWA: 1000 ppm 8 hour(s).

TWA: 1900 mg/m³ 8 hour(s).**ACGIH TLV (United States, 1/2009).**

STEL: 1000 ppm 15 minute(s).

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

TWA: 1000 ppm 8 hour(s).

TWA: 1900 mg/m³ 8 hour(s).

BENZYL ALCOHOL; alpha-hydroxytoluene; phenyl carbinol

AIHA WEEL (United States, 1/2009).

TWA: 10 ppm 8 hour(s).

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

TWA: 800 ppm 8 hour(s).

TWA: 1900 mg/m³ 8 hour(s).

BUTANE; n-Butane

NIOSH REL (United States, 6/2009).

TWA: 800 ppm 10 hour(s).

TWA: 1900 mg/m³ 10 hour(s).**ACGIH TLV (United States, 1/2009).**

TWA: 1000 ppm 8 hour(s).

PROPANE; dimethylmethane propyl hydride

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

TWA: 1000 ppm 8 hour(s).

TWA: 1800 mg/m³ 8 hour(s).**NIOSH REL (United States, 6/2009).**

TWA: 1000 ppm 10 hour(s).


TWA: 1800 mg/m³ 10 hour(s).**OSHA PEL (United States, 11/2006).**

TWA: 1000 ppm 8 hour(s).

TWA: 1800 mg/m³ 8 hour(s).**ACGIH TLV (United States, 1/2009).**

TWA: 1000 ppm 8 hour(s).

Personal Protective Equipment (PPE)

Eyes	Splash goggles.	
Body	Chemical-resistant gloves. Recommended: Viton Gloves	
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. [Aerosol.]	Color	Clear. Colorless.
pH	Not available.	Odor	Citrus
Boiling Point	79.444°C (175°F)	Vapor Pressure	38.1 kPa (285.5 mm Hg)
Specific Gravity	0.831	Vapor Density	Not available.
Solubility	Partially soluble in the following materials: cold water and hot water.	Evaporation Rate	Not available.
		VOC (Consumer)	829.6 g/l [ISO 11890-1]

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive or incompatible with the following materials: oxidizing materials and acids.
Hazardous Polymerization	Under normal conditions of storage and use, hazardous polymerization will not occur.
Hazardous Decomposition Products	Carbon dioxide, carbon monoxide, and other organic materials.

Section 11. Toxicological Information**Acute Toxicity**

Ethanol	LC50 Inhalation Vapor	Rat	20000 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-
BENZYL ALCOHOL	LC50 Inhalation Vapor	Rat	1000 ppm	8 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Mouse	1580 mg/kg	-
	LD50 Oral	Rabbit	1040 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
Butane	LD50 Oral	Rat	1230 mg/kg	-
	LC50 Inhalation Vapor	Rat	658 g/m ³	4 hours

Section 12. Ecological Information

Environmental Effects	Not available.
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Aquatic Ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Ethanol	-	Acute EC50 >100 ppm Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute EC50 2000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	-	Acute LC50 5680 mg/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours
	-	Acute LC50 13 ml/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 0.8 g	96 hours
	-	Acute LC50 12720 ppm Fresh water	Fish - Fathead minnow - Pimephales promelas - 40 mm	96 hours
	-	Acute LC50 14200000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 30 days - 19.4 mm - 0.099 g	96 hours
	-	Acute LC50 13480000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 4 to 8 weeks - 1.1 to 3.1 cm	96 hours
	-	Acute LC50 11000000 ug/L Marine water	Fish - Bleak - Alburnus alburnus - 8 to 10 cm	96 hours
	-	Acute LC50 10000000 to 11500000 ug/L	Fish - Bleak - Alburnus alburnus - 8 cm	96 hours

	-	Marine water Acute LC50 6772000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	-	Acute LC50 6386000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	-	Acute LC50 6325000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	-	Acute LC50 6076000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	-	Acute LC50 5577000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	-	Acute LC50 3715000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	-	Acute LC50 >100000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 0.2 to 0.5 g	96 hours
	-	Acute LC50 42000 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	4 days
	-	Acute LC50 25500 ug/L Marine water	Crustaceans - Brine shrimp - Artemia franchiscana - LARVAE	48 hours
	-	Chronic NOEC <6.3 g/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
BENZYL ALCOHOL	-	Acute LC50 460000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 4 to 8 weeks - 1.1 to 3.1 cm	96 hours
	-	Acute LC50 15000 ug/L Marine water	Fish - Inland silverside - Menidia beryllina - 40 to 100 mm	96 hours
	-	Acute LC50 10000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 33 to 75 mm	96 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: D001
Classification: - [Hazardous waste.]
Origin: - [RCRA waste.]

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	Not regulated.	Consumer commodity	ORM-D	-	
MDG Class	Not available.	Not available.	Not available.	-	

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: No products were found.

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.](#)

United States inventory (TSCA 8b): All components are listed or exempted.

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.