

Safety Data Sheet



Superior Solutions

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 CONCENTRATED SMOKESCREEN
DEODORIZER (GreenLink)
Product use Concentrated Liquid Odor Counteractant
Product code 2159
Date of issue 08/08/12 **Supersedes** 11/02/09

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

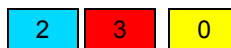
Prepared By
Compliance Services
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Hazards Identification

Emergency overview

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

WARNING!



FLAMMABLE LIQUID AND VAPOR. CAUSES EYE IRRITATION.
MAY BE HARMFUL IF SWALLOWED.

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 irritation. Inflammation of the eye is characterized by redness, watering and itching.

Skin May cause skin irritation. Skin inflammation is characterized by itching, scaling, or reddening.

Inhalation Avoid breathing vapors, spray or mists. Over-exposure by inhalation may cause respiratory irritation. Can cause dizziness, light-headedness, headache, nausea and blurred vision.

Ingestion May be harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.

Chronic effects

Contains material which may cause damage to the following organs: kidneys, lungs, liver, mucous membranes, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea. Repeated or prolonged exposure to spray or mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation.

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

<u>Name of Hazardous Ingredients</u>	<u>CAS number</u>	<u>% by Weight</u>
Ethanol; Ethyl Alcohol	64-17-5	15 - 25
Alcohols, C12-16, ethoxylated	68551-12-2	15 - 25
Dipropylene glycol methyl ether; (2-methoxymethylethoxy)propanol	34590-94-8	5 - 15
Hexylene Glycol; 2-methylpentane-2,4-diol	107-41-5	5 - 15
Fragrance mixture	proprietary	5 - 15
propyl acetate	109-60-4	1 - 5

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 immediately.
- 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 if irritation develops.
- Inhalation** Move exposed person to fresh air. If irritation persists, get medical attention.
- Ingestion** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. If affected person is conscious, give plenty of water to drink. 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** Closed cup: 27.8°C (82°F)
[Tagliabue.]
- Flammable Limits** Lower: 2%
Upper: 12%
- Flammability** Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
- Fire hazard** Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. 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, CO₂, water spray (fog) or foam.

Section 6. Accidental Release Measures

- Spill Clean up** Eliminate all ignition sources. 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. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and Storage

- Handling** Put on appropriate personal protective equipment (see section 8). Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** Store in accordance with local regulations. 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. Eliminate all ignition sources. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Keep out of the reach of children.

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

Ethanol; Ethyl Alcohol

Exposure limits**ACGIH TLV (United States, 2/2010).**

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

TWA: 1000 ppm 10 hour(s).

TWA: 1900 mg/m³ 10 hour(s).**OSHA PEL (United States, 6/2010).**

TWA: 1000 ppm 8 hour(s).

TWA: 1900 mg/m³ 8 hour(s).

Dipropylene glycol methyl ether; (2-methoxymethylethoxy)propanol

ACGIH TLV (United States, 2/2010). Absorbed through skin.

TWA: 100 ppm 8 hour(s).

TWA: 606 mg/m³ 8 hour(s).

STEL: 150 ppm 15 minute(s).

STEL: 909 mg/m³ 15 minute(s).**OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.**

TWA: 100 ppm 8 hour(s).

TWA: 600 mg/m³ 8 hour(s).

STEL: 150 ppm 15 minute(s).

STEL: 900 mg/m³ 15 minute(s).**NIOSH REL (United States, 6/2009). Absorbed through skin.**

TWA: 100 ppm 10 hour(s).

TWA: 600 mg/m³ 10 hour(s).

STEL: 150 ppm 15 minute(s).

STEL: 900 mg/m³ 15 minute(s).**OSHA PEL (United States, 6/2010). Absorbed through skin.**

TWA: 100 ppm 8 hour(s).
TWA: 600 mg/m³ 8 hour(s).

Hexylene Glycol; 2-methylpentane-2,4-diol

ACGIH TLV (United States, 2/2010).

C: 25 ppm

C: 121 mg/m³**OSHA PEL 1989 (United States, 3/1989).**

CEIL: 25 ppm

CEIL: 125 mg/m³**NIOSH REL (United States, 6/2009).**

CEIL: 25 ppm

CEIL: 125 mg/m³

propyl acetate

ACGIH TLV (United States, 2/2010).

TWA: 200 ppm 8 hour(s).

TWA: 835 mg/m³ 8 hour(s).

STEL: 250 ppm 15 minute(s).

STEL: 1040 mg/m³ 15 minute(s).**OSHA PEL 1989 (United States, 3/1989).**

TWA: 200 ppm 8 hour(s).

TWA: 840 mg/m³ 8 hour(s).

STEL: 250 ppm 15 minute(s).

STEL: 1050 mg/m³ 15 minute(s).**NIOSH REL (United States, 6/2009).**

TWA: 200 ppm 10 hour(s).

TWA: 840 mg/m³ 10 hour(s).

STEL: 250 ppm 15 minute(s).

STEL: 1050 mg/m³ 15 minute(s).**OSHA PEL (United States, 6/2010).**

TWA: 200 ppm 8 hour(s).

TWA: 840 mg/m³ 8 hour(s).**Personal Protective Equipment (PPE)****Eyes**

Safety glasses.

Body

Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves.

**Respiratory**

Avoid direct inhalation of spray. 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.**pH** 8 to 9**Boiling Point** 85°C (185°F)**Specific Gravity** 0.97**Solubility** Soluble in the following materials: cold water and hot water.**Color** Colorless.**Odor** Pleasant.**Vapor Pressure** Not determined.**Vapor Density** Not determined.**Evaporation Rate** 1 (Water = 1)**VOC (Consumer)** 39.6 % (w/w) 3.21 lbs/gal (384.1 g/l)**Section 10. Stability and Reactivity****Stability and Reactivity**

The product is stable.

Incompatibility

Avoid contact with strong oxidizers, excessive heat, sparks or open flame.

Hazardous Polymerization

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

Hazardous Decomposition Productscarbon oxides (CO, CO₂)**Section 11. Toxicological Information****Acute Toxicity****Product/ingredient name****Result****Species****Dose****Exposure**

(2-methoxymethylethoxy)propanol

LD50 Oral

Rat

5.5 mL/kg

-

2-methylpentane-2,4-diol

LD50 Oral

Rat

3700 mg/kg

-

ethanol

LC50 Inhalation Vapor

Rat

124700 mg/m³

4 hours

propyl acetate

LD50 Oral

Rat

9370 mg/kg

-

Section 12. Ecological Information**Environmental Effects**

Not available.

Aquatic Ecotoxicity**Product/ingredient name****Test****Result****Species****Exposure**

2-methylpentane-2,4-diol	-	Acute EC50 2800000 ug/L Fresh water	Crustaceans - Water flea - Ceriodaphnia reticulata - Larvae - <24 hours	48 hours
	-	Acute EC50 3200000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Larvae - <24 hours	48 hours
ethanol	-	Acute LC50 8000000 ug/L Marine water	Fish - Bleak - Alburnus alburnus - 8 cm	96 hours
	-	Acute LC50 25500 ug/L Marine water	Crustaceans - Brine shrimp - Artemia franchiscana - Larvae	48 hours
propyl acetate	-	Acute LC50 60000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 30 days - 20.4 mm - 0.148 g	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 Classification: Non-hazardous waste
Origin: RCRA waste.

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	Not regulated.	-	-	-	
IMDG Class	UN1993	Flammable liquid, n.o.s. (ethanol)	3	III	

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) 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.

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.