

# Material Safety Data Sheet



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

## Section 1. Chemical Product and Company Identification

**Product name** Zep Sta-A-Way Insect Repellent II  
**Product use** Aerosol Insect Repellent  
**Product code** 3537  
**Date of issue** 03/01/11 **Supersedes**

EPA ID No. 10807-127-1270

## Emergency Telephone Numbers

**For MSDS Information:**  
Compliance Services 1-877-1-BUY-ZEP (428-9937)  
CRITY

**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

470



DELAWARE COUNTY HOUSING AUTHORITY  
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## Section 2. Hazards Identification

### Emergency overview

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

### WARNING !



MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.  
HARMFUL IF SWALLOWED. VAPOR HARMFUL.

CONTENTS UNDER PRESSURE. EXTREMELY FLAMMABLE.

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. May cause allergic reactions in certain individuals.  
**Inhalation** Avoid direct inhalation of spray. Over-exposure by inhalation may cause respiratory irritation.  
**Ingestion** Harmful if swallowed. Can cause gastrointestinal disturbances.

### Chronic effects

Contains material which may cause damage to the following organs: kidneys, liver, upper respiratory tract, skin, eyes, central nervous system (CNS), ears.  
Prolonged or repeated contact may dry skin and cause irritation.

### Carcinogenicity

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

### Product/ingredient name

Not available.

Additional Information: See Toxicological Information (Section 11)

## Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
ISOPROPYL ALCOHOL; ipa; dimethylcarbinol; 2-propanol	67-63-0	15 - 40
DEET; diethyltoluamide; N,N-diethyl-m-toluamide; metadelphe	134-62-3	23.75
HYDROCARBON PROPELLANT; blend of propane & n-butane	74-98-6; 106-97-8	10 - 35
MGK(R) 264; N-Octyl Bicycloheptene Dicarboximide	113-48-4	5
DIPROPYL ISOCINCHOMERONATE	136-45-8	2.5

## Section 4. First Aid Measures

- Eye Contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.
- Skin Contact** This product is formulated for use on skin but should be rinsed off when possible. Get medical attention if irritation develops. Observe label precautions.
- Inhalation** Move exposed person to fresh air. If irritation persists, 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, the head should be kept low so that vomit does not enter the lungs. 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** Not applicable

**Flammable Limits** Not available.

**Flammability** Extremely flammable. (CSMA Method)

**Fire hazard** CONTENTS UNDER PRESSURE. Flammable liquid and vapor. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed.

**Fire-Fighting Procedures** Use an extinguishing agent suitable for the surrounding fire. Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion.

### Section 6. Accidental Release Measures

**Spill Clean up** Large spills are unlikely due to packaging.

### 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. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wash thoroughly after handling. Apply this product only as specified on the label.

**Storage** CONTENTS UNDER PRESSURE. Do not puncture or incinerate. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store below 120°F (49°C). Avoid all possible sources of ignition (spark or flame). Keep out of the reach of children.

### Section 8. Exposure Controls/Personal Protection

#### Product name

ISOPROPYL ALCOHOL; ipa; dimethylcarbinol; 2-propanol

#### Exposure limits

ACGIH TLV (United States, 1/2009).

TWA: 200 ppm 8 hour(s).

STEL: 400 ppm 15 minute(s).

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

TWA: 400 ppm 8 hour(s).

TWA: 980 mg/m<sup>3</sup> 8 hour(s).

STEL: 500 ppm 15 minute(s).

STEL: 1225 mg/m<sup>3</sup> 15 minute(s).

NIOSH REL (United States, 6/2009).

TWA: 400 ppm 10 hour(s).

TWA: 980 mg/m<sup>3</sup> 10 hour(s).

STEL: 500 ppm 15 minute(s).

STEL: 1225 mg/m<sup>3</sup> 15 minute(s).

OSHA PEL (United States, 11/2006).

TWA: 400 ppm 8 hour(s).

TWA: 980 mg/m<sup>3</sup> 8 hour(s).

HYDROCARBON PROPELLANT; blend of propane & n-butane

ACGIH TLV / OSHA PEL (United States). Notes: Propane

TWA: 1000 ppm 8 hour(s).

#### Personal Protective Equipment (PPE)

**Eyes** No special protection is required.

**Body** No special protective clothing is required.

**Respiratory** Avoid direct inhalation of spray. Use with adequate ventilation.

### Section 9. Physical and Chemical Properties

**Physical State** Liquid. [Aerosol.]

**pH** Not applicable

**Boiling Point** Not determined.

**Specific Gravity** 0.873

**Solubility** Very slightly soluble in the following materials: cold water and hot water.

**Color** Clear. Colorless to light yellow.

**Odor** Mild. Characteristic.

**Vapor Pressure** Not determined.

**Vapor Density** Not available.

**Evaporation Rate** Not available.

**VOC (Consumer)** 65.0%

**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility</b>	Keep away from heat, sparks and flame. Slightly reactive or incompatible with the following materials: oxidizing materials.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Hazardous Decomposition Products</b>	carbon oxides (CO, CO <sub>2</sub> )

**Section 11. Toxicological Information****Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Isopropyl alcohol	LC50 Inhalation Vapor	Rat	16000 ppm	4 hours
	LD50 Dermal	Rabbit	5030 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
DIETHYLTOLUAMIDE	LC50 Inhalation Vapor	Rat	5950 mg/m <sup>3</sup>	8 hours
	LD50 Oral	Rabbit	3180 mg/kg	-
	LD50 Oral	Rat	1950 mg/kg	-

**Section 12. Ecological Information**

**Environmental Effects** Not available.

**Aquatic Ecotoxicity**

Product/ingredient name	Test	Result	Species	Exposure
Isopropyl alcohol	-	Acute LC50 11130000 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 10400000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 29 days - 20 mm - 0.103 g	96 hours
	-	Acute LC50 9640000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 31 days - 20.6 mm - 0.117 g	96 hours
	-	Acute LC50 6550000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 31 days - 17.4 mm - 0.082 g	96 hours
	-	Acute LC50 4200000 ug/L Fresh water	Fish - Harlequinfish, red rasbora - Rasbora heteromorpha - 1 to 3 cm	96 hours
	-	Acute LC50 1400000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon	48 hours
	-	Acute LC50 >1400000 ug/L	Fish - Western mosquitofish - Gambusia affinis - 20 to 30 mm	96 hours
DIETHYLTOLUAMIDE	-	Acute EC50 75 mg/L	Daphnia	48 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 available.	Consumer commodity	ORM-D		
IMDG Class	Not determined.				

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

Isopropyl alcohol

Dipropyl isocinchomeronate

**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):** Not determined.

#### State Regulations

**California Prop 65**

**WARNING:** This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.:

Dipropyl isocinchomeronate

### 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.