



Zep Commercial Sales & Service
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Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name Instant Spot & Stain Remover
Product code ZUSPOT
Date of issue 03/15/13 **Supersedes** 02/28/11

Emergency Telephone Numbers

For MSDS Information:

Compliance Services 404-352-1680

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

CAUTION

1 1 0

CAUSES EYE IRRITATION. HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED. CONTENTS UNDER PRESSURE. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 120 °F. Keep out of reach of children.

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 be harmful if absorbed through the skin. Skin inflammation is characterized by itching, scaling, or reddening.

Inhalation

Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system (CNS) depression.

Ingestion

May be harmful if swallowed. Ingestion may cause nausea, weakness and central nervous system effects.

Chronic effects

May cause damage to the following organs: kidneys, liver, central nervous system (CNS). Contains material which may cause damage to the following organs: blood, heart, lymphatic system, upper respiratory tract, skin, eye, lens or cornea. Overexposure of this product by inhalation or absorption can produce central nervous system depression resulting in headache, nausea and/or dizziness.

Carcinogenicity

Contains material which may cause cancer. Risk of cancer depends on duration and level of exposure.

Product/ingredient name

ACGIH

IARC

EPA

NIOSH

NTP

OSHA

2-butoxyethanol

A3

3

-

-

-

-

acetone

A4

-

-

-

-

-

sodium nitrite

-

2A

-

-

-

-

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

CAS number

% by Weight

Product code ZUSPOT	Safety Data Sheet	Product Name Instant Spot & Stain Remover
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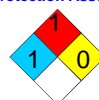
Butyl Cellosolve; Ethylene Glycol Monobutyl Ether; 2-Butoxyethanol	111-76-2	5 - 15
Butane	106-97-8	1 - 10
Dipropylene glycol monobutyl ether; Glycol Ether DPnB; 1-(2-butoxy-1-methylethoxy) propan-2-ol	29911-28-2	1 - 5
acetone	67-64-1	1 - 5
propane	74-98-6	1 - 5
sodium nitrite	7632-00-0	0.1 - 1

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 if irritation occurs.
Skin Contact	Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Inhalation	If inhaled, remove to fresh air. If irritation persists, 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. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures

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



Flash Point	Not available.
Flammable Limits	Not applicable.
Flammability	Non-flammable.
Fire hazard	CONTENTS UNDER PRESSURE. 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 dry chemical, CO ₂ , water spray (fog) or foam.

Section 6. Accidental Release Measures

Spill Clean up Spills are unlikely due to packaging.

Section 7. Handling and Storage

Handling	Avoid contact with eyes. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Wash thoroughly after handling. Store and use away from heat, sparks, open flame or any other ignition source.
Storage	CONTENTS UNDER PRESSURE. Do not puncture or incinerate container. Store below 120°F (49°C). Keep container in a cool, well-ventilated area. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name

Butyl Cellosolve; Ethylene Glycol Monobutyl Ether; 2-Butoxyethanol

Exposure limits

OSHA PEL 1989 (United States, 3/1989). Absorbed through skin.

TWA: 25 ppm 8 hour(s).

TWA: 120 mg/m³ 8 hour(s).

NIOSH REL (United States, 6/2009). Absorbed through skin.

TWA: 5 ppm 10 hour(s).

TWA: 24 mg/m³ 10 hour(s).

ACGIH TLV (United States, 2/2010).

TWA: 20 ppm 8 hour(s).

OSHA PEL (United States, 6/2010). Absorbed through skin.

TWA: 50 ppm 8 hour(s).

TWA: 240 mg/m³ 8 hour(s).

Butane

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

TWA: 800 ppm 8 hour(s).

TWA: 1900 mg/m³ 8 hour(s).

NIOSH REL (United States, 6/2009).

TWA: 800 ppm 10 hour(s).

TWA: 1900 mg/m³ 10 hour(s).

ACGIH TLV (United States, 2/2010).

TWA: 1000 ppm 8 hour(s).

ACGIH TLV (United States, 2/2010).

TWA: 500 ppm 8 hour(s).

TWA: 1188 mg/m³ 8 hour(s).

STEL: 750 ppm 15 minute(s).

STEL: 1782 mg/m³ 15 minute(s).

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

TWA: 750 ppm 8 hour(s).

TWA: 1800 mg/m³ 8 hour(s).

acetone

propane

STEL: 1000 ppm 15 minute(s).
 STEL: 2400 mg/m³ 15 minute(s).
NIOSH REL (United States, 6/2009).
 TWA: 250 ppm 10 hour(s).
 TWA: 590 mg/m³ 10 hour(s).
OSHA PEL (United States, 6/2010).
 TWA: 1000 ppm 8 hour(s).
 TWA: 2400 mg/m³ 8 hour(s).
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, 6/2010).
 TWA: 1000 ppm 8 hour(s).
 TWA: 1800 mg/m³ 8 hour(s).
ACGIH TLV (United States, 2/2010).
 TWA: 1000 ppm 8 hour(s).

Personal Protective Equipment (PPE)

Eyes Safety glasses.

Body For prolonged or repeated handling, use gloves.

Respiratory Avoid breathing vapors, spray or mists. A respirator is not needed under normal and intended conditions of product use.



Section 9. Physical and Chemical Properties

Physical State	Liquid. [Aerosol.]	Color	Clear. Colorless.
pH	9 to 10	Odor	Butyl
Boiling Point	100°C (212°F)	Vapor Pressure	Not available.
Specific Gravity	0.9922	Vapor Density	Not available.
Solubility	Soluble in water	Evaporation Rate	Not available.
		VOC (Consumer)	14.9 % (w/w) 1.23 lbs/gal (147.6 g/l)

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Slightly reactive or incompatible with the following materials: oxidizing materials.

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

Hazardous Decomposition Products carbon oxides (CO, CO₂)

Section 11. Toxicological Information

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-butoxyethanol	LC50 Inhalation Gas.	Rat	450 ppm	4 hours
	LD50 Dermal	Rabbit	220 mg/kg	-
	LD50 Oral	Rat	250 mg/kg	-
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m ³	4 hours
1-(2-butoxy-1-methylethoxy)propan-2-ol	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat - Female	3700 mg/kg	-
acetone	LD50 Oral	Rat	5800 mg/kg	-

Section 12. Ecological Information

Environmental Effects Not available.

Aquatic Ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
2-butoxyethanol	-	Acute EC50 >1000 mg/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute LC50 800000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon	48 hours
	-	Acute LC50 1250000 ug/L Marine water	Fish - Inland silverside - Menidia beryllina - 40 to 100 mm	96 hours
1-(2-butoxy-1-methylethoxy)propan-2-ol	-	Acute EC50 >1000 mg/l	Daphnia	96 hours
	-	Acute LC50 841 mg/l	Fish	96 hours
acetone	-	Acute EC50 5600000 to 10000000 ug/L Fresh	Algae - Green algae - Selenastrum sp.	72 hours

sodium nitrite	-	water		
	-	Acute EC50 20.565 mg/L Marine water	Algae - Green algae - Ulva pertusa	96 hours
	-	Acute LC50 6000000 ug/L Fresh water	Crustaceans - Scud - Gammarus pulex	48 hours
	-	Acute LC50 10000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	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
	-	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - 6 to 24 hours	21 days
	-	Acute EC50 159000 ug/L Marine water	Algae - Prasinophyte - Tetraselmis chuii	72 hours
	-	Acute EC50 1600000 ug/L Marine water	Algae - Prasinophyte - Tetraselmis chuii	96 hours
	-	Acute LC50 1100 ug/L Fresh water	Crustaceans - Australian redclaw crayfish - Cherax quadricarinatus - 0.1 to 0.14 g	48 hours
	-	Acute LC50 48 ug/L Fresh water	Fish - Channel catfish - Ictalurus punctatus - Fingerling - 50 to 76 mm	96 hours
	-	Chronic NOEC 2.09 to 2.35 mg/L Fresh water	Fish - Fathead minnow - Pimephales promelas - Egg - 0.013 g	32 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 Classification: Non-hazardous waste by Characteristic.
Origin: RCRA waste.

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	-	Consumer commodity or Limited quantity	ORM-D	-	
TDG Classification	UN1950	AEROSOLS, non-flammable or Limited quantity	2.2	-	
IMDG Class	UN1950	AEROSOLS, non-flammable or Limited quantity	2.2	-	

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

2-butoxyethanol

Clean Water Act (CWA) 311: sodium nitrite

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

No products were found.

Canada

WHMIS (Canada)

Class A: Compressed gas.

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.

**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.*

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