

Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name ZEP BATTERY CARE
Product Use Aerosol Battery Terminal Cleaner
Product Code 0308
Date of issue 01/11/05
Supersedes 10/20/00

Emergency For MSDS Information:
Telephone Acuity Specialty Products Group, Inc.
Numbers Compliance Services 1-877-1-BUY-ZEP (428-9937)

For Medical Emergency
INFOTRAC:
(877) 541-2016 Toll Free - All Calls Recorded

For a Transportation Emergency
CHEMTREC:
(800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

Prepared by Compliance Services Group

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1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

ZEP Manufacturing Company
Acuity Specialty Products Group, Inc.
P.O. Box 2015
Atlanta, GA 30301
1-877-1-BUY-ZEP (428-9937)
www.zep.com



LEES SUMMIT R-7 SCHOOL DIST
BUS BARN
500 TRANSPORT DR
LEES SUMMIT MO 64081-3290

Printing date: 12/19/05

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients		CAS #	% by Weight	Exposure Limits
HYDROCARBON PROPELLANT; blend of propane, isobutane & n-butane		75-28-5; 74-98-6; 100-97-8	1 - 10	ACGIH TLV / OSHA PEL (United States): Notes: Propane TWA: 1000 ppm, 8 hour(s); OSHA PEL / ACGIH TLV (United States): Notes: n-Butane TWA: 800 ppm, 8 hour(s); OSHA PEL / ACGIH TLV (United States): TWA: 50 ppm, 8 hour(s); OSHA PEL (United States), Skin
ETHYLENE GLYCOL MONOBUTYL ETHER, 2-butoxyethanol; butyl cellosolve		111-76-2	1 - 5	ACGIH TLV (United States): TWA: 20 ppm, 8 hour(s); OSHA PEL (United States), Skin

Section 3. Hazards Identification

Acute Effects

Routes of Entry Dermal contact, Inhalation.

Skin

Hazardous in case of skin contact (irritant, permeator). Harmful if absorbed through the skin.
Direct contact may cause irritation and redness. Prolonged or repeated contact may dry skin.

Eyes

Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

Inhalation

Hazardous in case of inhalation. Avoid breathing vapors or spray mists. Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system depression.

Ingestion

May be harmful if swallowed. Can cause gastrointestinal disturbances.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse health effects are lessened by following all prescribed safety precautions, including use of proper personal protective equipment.

Carcinogenic Effects

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

Chronic Effects

The substance may be toxic to blood, kidneys, liver, upper respiratory tract, skin, eyes, 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 exposure to the substance can produce target organ damage.

See Toxicological Information (section 11)

Health	1
Reactivity	0
Personal Protection	B

HMIS

Section 4. First Aid Measures**Eye Contact**

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention.

Skin Contact

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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. Get medical attention immediately.

Section 5. Fire Fighting Measures**Flash Point**

Not applicable.

Flammability

Non-flammable. (CSMA)
CONTENTS UNDER PRESSURE. Container explosion may occur under fire conditions or when heated.

Fire-Fighting Procedures

Use DRY chemicals, CO₂, water spray or foam. Cool closed containers exposed to fire with water.

Section 6. Accidental Release Measures**Spill Clean up**

Large spills are unlikely due to packaging.

Section 7. Handling and Storage**Handling**

Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapors or spray mists. Use only with adequate ventilation. Observe label precautions. Wash thoroughly after handling.

Storage

CONTENTS UNDER PRESSURE. Do not puncture or incinerate container. Keep container in a cool, well-ventilated area. Do not store above 49°C (120.2°F). Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection**Personal Protection****Protective Clothing (Pictograms)****Body**

Rubber gloves. Nitrile gloves. Neoprene 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.

Section 9. Physical and Chemical Properties**Physical State**

Liquid. (Aerosol.)

pH

Not applicable

Boiling Point

101.67°C (215°F)

Specific Gravity

1 (Water = 1)

Solubility

Easily soluble in cold water, hot water.

VOC (Consumer)

693.37 (g/l). 5.79 lbs/gal 8.21%

Section 10. Stability and Reactivity**Stability and Reactivity**

The product is stable.

Incompatibility

Reactive with oxidizing agents, metals. Incompatible with magnesium, zinc, sodium, potassium and aluminum.

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

Carbon Dioxide, Carbon Monoxide and other organic materials..

Section 11. Toxicological Information**Toxicity to Animals**

Ethylene Glycol Monobutyl Ether:

ORAL (LD50): Acute: 1746 mg/kg [Rat]

DERMAL (LD50): Acute: 680 mg/kg [Rabbit].

VAPOR (LC50): Acute: 450 ppm 4 hour(s) [Rat (Female)].

Section 12. Ecological Information**Ecotoxicity**

Not available.

Biodegradable/OECD

Not available.

Section 13. Disposal Considerations**Waste**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Information

Consult your local or regional authorities.

Product Code 0308

Material Safety Data Sheet

Product Name ZEP BATTERY CARE

Section 14. Transport Information

Proper shipping name Consumer Commodity

DOT Classification ORM-D

UN number Not regulated.

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.

Section 15. Regulatory Information

U.S. Federal Regulations SARA 313 toxic chemical notification and release reporting:

Ethylene Glycol Monobutyl Ether

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 regulated toxic substances: Ethylene Glycol Monobutyl Ether

All Components of this product are listed or exempt from listing on TSCA inventory.

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.

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