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Atlanta, GA 30318
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Superior Solutions www.zep.com

Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name ZEPRESERVE NC
Product use Aerosol Penetrating Oil
Product code 0315
Date of issue 12/13/04 **Supersedes** 11/03/00

Emergency Telephone Numbers For MSDS Information:
Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency
INFOTRAC: (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

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Prepared By
Compliance Services
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Section 2. Composition, Information on Ingredients

Name of hazardous ingredients	CAS #	% by Weight	Exposure Limits
LIGHT AROMATIC NAPHTHA; aromatic hydrocarbon solvent; solvent naphtha (petroleum)	64742-95-6	10 - 20	Not established
ALIPHATIC NAPHTHA; ligroin; stoddard solvent	8052-41-3	10 - 20	OSHA PEL (United States). TWA: 100 ppm 8 hour(s). ACGIH TLV (United States). TWA: 100 ppm 8 hour(s).
MINERAL SEAL OIL; mineral oil; petrolatum	64741-77-1	10 - 20	OSHA PEL (United States). : 5 mg/m ³ 8 hour(s). Form: Mist ACGIH TLV (United States). : 5 ppm 8 hour(s). Form: Mist
ETHANOL; ethyl alcohol; grain alcohol	64-17-5	5 - 15	ACGIH TLV (United States). TWA: 1000 ppm 8 hour(s). OSHA PEL (United States). TWA: 1000 ppm 8 hour(s).
2-ETHYL HEXYL ALCOHOL; 2-ethyl-1-hexanol; 2-ethylhexanol	104-76-7	5 - 15	Not established
PARAFFIN OIL; blend of heavy and light naphthenic petroleum distillate	64742-52-5	5 - 15	OSHA PEL (United States). TWA: 5 mg/m ³ 8 hour(s). Form: Mist ACGIH TLV (United States). TWA: 5 mg/m ³ 8 hour(s). Form: Mist
DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-butoxyethoxy)-ethanol; butyl carbitol	112-34-5	<5	Not established
1,2,4-TRIMETHYLBENZENE	95-63-6	<5	ACGIH TLV (United States). TWA: 25 ppm 8 hour(s). OSHA PEL (United States). TWA: 25 ppm 8 hour(s).

Section 3. Hazards Identification

Acute Effects

Routes of Entry Absorbed through skin. Inhalation.

Skin Hazardous by the following route of exposure: of skin contact (irritant, permeator). Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.

Eyes Hazardous by the following route of exposure: of eye contact (irritant). Direct contact may cause irritation and redness.

Inhalation Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system (CNS) depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Medical conditions aggravated by over-exposure Respiratory

Ingestion Unlikely in this form.

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

Absorbed through skin. Can cause central nervous system (CNS) depression. Defatting to the skin. Prolonged or repeated contact may dry skin and cause irritation. The substance may be toxic to blood, kidneys, lungs, the reproductive system, liver, mucous membranes, heart, spleen, brain, skin, , central nervous system (CNS), ears, eye, lens or cornea, testes. Repeated or prolonged exposure to the substance can produce target organs damage.

HMIS

Health	2
Fire Hazard	2
Reactivity	0
Personal Protection	B

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Skin Contact	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. 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	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. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Closed cup: 22.2°C (72°F). (Tagliabue.)	Flammable Limits	Not determined.
Flammability	FLAMMABLE. (CSMA)		
Fire hazard	FLAMMABLE LIQUID AND VAPOR. Vapor may cause flash fire. Container explosion may occur under fire conditions or when heated. Cool closed containers exposed to fire with water.		
Fire-fighting procedures	Dry chemical, carbon dioxide, foam. 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.
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Section 7. Handling and Storage

Handling	Keep away from heat, sparks and flame. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Wash thoroughly after handling.
Storage	Contents under pressure. Keep away from heat, sparks and flame. Keep away from sources of ignition - No smoking. Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Keep container in a cool, well-ventilated area. Do not store above the following temperature: 49°C (120.2°F). Do not puncture or incinerate. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

	Personal Protection	Protective Clothing (Pictograms)
Eyes	Safety glasses.	
Body	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 threshold limit value. Wear appropriate respirator when ventilation is inadequate.	

Section 9. Physical and Chemical Properties

Physical State	Liquid. (Aerosol.)	Color	Amber.
pH	Not applicable.	Odor	Solvent-like.
Boiling Point	Not determined.	Vapor Pressure	Not determined.
Specific Gravity	0.85(Water = 1)	Vapor Density	Not determined.
Solubility	Insoluble in the following materials: cold water, hot water.	Evaporation Rate	Not determined.
		VOC (Consumer)	49.2% 3.48 lb/gal 417.48 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	Will not occur.
Hazardous Decomposition Products	Carbon dioxide., Carbon monoxide. and other organic materials..

Section 11. Toxicological Information

Toxicity to Animals	Ethanol: ^[25,45,50,70 ORAL (LD50):□Acute: 7060 mg/kg [Rat]. DERMAL (LD50):□Acute: 1970 mg/kg [Rabbit]. Diethylene Glycol Monobutyl Ether: ^[25,45,50,70 ORAL (LD50):□Acute: 5660 mg/kg [Rat]. 2400 mg/kg [Mouse]. DERMAL (LD50):□Acute: 2700 mg/kg [Rabbit]. 1,2,4-Trimethylbenzene: ^[25,45,50,70 ORAL (LD50):□Acute: 5000 mg/kg [Rat].
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Section 12. Ecological Information**Ecotoxicity** Not available.**Biodegradable/OECD** Not available.**Section 13. Disposal Considerations**

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

Waste Stream Code: D001
Classification: - (Hazardous waste.)
Origin: - (RCRA waste.)

Consult your local or regional authorities.

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.

TDG Classification**Section 15. Regulatory Information****U.S. Federal Regulations** SARA 313 toxic chemical notification and release reporting:

Diethylene Glycol Monobutyl Ether

1,2,4-Trimethylbenzene

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

Clean Air Act (CAA) 112 regulated toxic substances: Diethylene Glycol Monobutyl Ether

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

State Regulations

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

WHMIS (Canada)**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.