

**01534-9000****MATERIAL SAFETY DATA SHEET****MSDS #: 411**

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Chartpak, Inc.  
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 Phone: 413-584-5446 or 800-628-1910

Creation Date: January 2, 2008

Emergency Medical Number: 888-786-0972

**Section One: Product Information**

Product Name: Grumbacher Zec  
 Product Sizes: 150 ml  
 Product Class: Mediums

**Section Two: Ingredients**

Ingredients	CAS Number	% by Weight	PEL/TLV
D-Limonene	5989-27-5	20%	N/A
Linseed Oil	8001-26-1	20%	N/A
Turpentine	9005-90-7	10%	100ppm

**Section Three: Hazards Identification**

WARNING: COMBUSTIBLE. EXPOSURE MAY CAUSE ALLERGIC REACTIONS. SKIN IRRITANT.  
 CONTAINS: D-LIMONENE, DELTA-3-CARENE  
 KEEP OUT OF REACH OF CHILDREN.

**Section Four: First Aid Measures**

Inhalation: Move to fresh air  
 Skin Contact: If skin contact occurs, wash with soap and water for 5 minutes.  
 Eye Contact: Flush with flowing water.  
 Ingestion: Consult a physician. For further health information, contact a poison control center.

This Material Safety Data Sheet is applicable to the consumer use of the following colors: 411

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**Section Five: Fire Fighting Measures**

Flash Point: 250F

Flammability Limits (% by volume): Lower: Not explosive Upper: Not explosive

Extinguishing Media: Foam, carbon dioxide, dry chemical

Special Fire Fighting Measures: No special fire fighting procedures.

Unusual Fire and Explosion Hazards: Combustible

**Section Six: Accidental Release Measures**

Wipe up with absorbent material.

**Section Seven: Handling and Storage**

Handling: No special handling requirements.

Storage: Do not store or use near heat or flame. KEEP OUT OF REACH OF CHILDREN.

**Section Eight: Exposure Controls and Personal Protection**

Respiratory Protection and Special Ventilation Requirements: None required

Other Protective Equipment (Gloves, Goggles, Etc.): Impervious protective gloves

Work/Hygiene Practices: PRECAUTIONS:

Avoid prolonged contact with skin. Wash hands immediately after use. When using, wear impermeable protective gloves. Do not store or use near heat or flame. Keep container tightly capped when not in use. KEEP OUT OF REACH OF CHILDREN.

**Section Nine: Physical and Chemical Properties**

Boiling Point: Not determined Melting Point: Not determined

Vapor Pressure: Not determined Specific Gravity: 0.95 - 1.00

Specific Vapor Density (AIR = 1): Heavier than air Evaporation Rate (Butyl Acetate = 1): >1

Solubility in Water: Not determined Reactivity in Water: Non-reactive

Appearance and Odor: Colorless liquid; citrus odor

**Section Ten: Stability and Reactivity**

Stability: Stable

Conditions to Avoid: None known

Chemical Incompatibility: Strong oxidizing materials

Hazardous Decomposition: Carbon monoxide, carbon dioxide, and various hydrocarbons

Hazardous Polymerization: Will not occur

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**Section Eleven: Toxicological Information**

IARC Monographs: No  
 National Toxicology Program: No  
 OSHA Regulated: No  
 Effects/Symptoms of Acute Exposure: Skin irritation  
 Effects/Symptoms of Chronic Exposure: Skin irritation and/or allergic reactions.  
 Medical Conditions Usually Aggravated By Overexposure of This Product: Unknown

**Section Twelve: Ecological Information**

Not available

**Section Thirteen: Disposal Considerations**

Dispose in accordance with Federal, State, and Local Regulations.

**Section Fourteen: Transport Information**

DOT: ORM-D IATA: ID8000, Consumer Commodity, Class 9  
 IMDG: UN1993, Flammable Liquid, n.o.s. (Turpentine), (140F TCC), 3, III, LTD. QTYS., EmS# F-E, S-E  
 UN SHIPMENT: UN1993, Flammable Liquid, n.o.s. (Turpentine),( 140F TCC) 3, III, packing instructions 910

**Section Fifteen: Regulatory Information**

TSCA INVENTORY:

The product on this Material Safety Data Sheet is not listed on the United States Environmental Protection Agency Toxic Substances Control Act Inventory. However, the components of the product are included in the TSCA Inventory.

**Section Sixteen: Other Information**

HMIS Code	
Health	1
Flammability	2
Reactivity	0
Personal Protection	B

Chartpak, Inc. is a member of the Art and Creative Materials Institute, Inc. This product is certified by the Institute to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D4236 and is labeled with the CL (Cautionary Label) Seal. Products bearing the CL Seal are certified to be properly labeled in a program of toxicological evaluation by a medical expert for any known health risks and with information on the safe and proper use of these materials. Conforms to ASTM D4236.

0=Minimal / 4 = Severe

May be used to comply with OSHA Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.