

MATERIAL SAFETY DATA SHEET

MSDS Number:	88, REV E PITNEY BOWES, INC.	Issued:	July 14, 1992
		Revised:	April 10, 2001
Product Name:	Indicia Cleaning Kit	Page:	1 of 6

SECTION I - PRODUCT IDENTIFICATION

Product Name:	Indicia Cleaning Kit		
Product Use:	Cleaning Solvent used in Mailing Machines		
Product Code:	E190001		
Manufacturer:	Pitney Bowes Inc.		
Address:	1 Elmcroft Road, Stamford, CT 06926-0700		
For MSDS Copies:	www.pb.com (go to search)	North America:	800-243-7824
	Canada: www.pitneybowes.ca	International:	00 44 1279 449479
Emergency/Chemtrec:	800-424-9300		00-1-703-527-3887
	North America		<i>International</i> (collect call)
MSDS Prepared By:	Chemical Review Board		
WHMIS Reviewed:	June 30, 2004		

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS No.	%	EXPOSURE LIMITS
Ethanol	64-17-5	70-80	1000 ppm TWA TLV, 1000 ppm TWA PEL
Methanol	67-56-1	1-5	200 ppm TWA TLV (skin), 250 ppm Ceiling TLV; 200 ppm TWA PEL
Isopropanol	67-63-0	5-10	400 ppm TWA TLV, 500 ppm STEL TLV, 400 ppm TWA PEL
Trippropylene Glycol	24800-44-0	1-10	None Established

SECTION III - HAZARD IDENTIFICATION

Emergency Overview:	Clear, colorless liquid with an alcohol odor. Flammable liquid and vapor. May cause eye and skin irritation. Methanol may be absorbed through the skin in harmful amounts. High vapor concentrations may cause may cause irritation and central nervous system effects. Swallowing may cause nausea, vomiting, euphoria, visual disturbances, acidosis, coma or death. May cause chronic effects.
Relevant Routes of Exposure:	Skin, eyes, inhalation, ingestion
Signs and Symptoms of Acute Overexposure:	May cause eye and skin irritation. Inhalation of vapors may cause irritation and central nervous system effects. Swallowing may cause nausea, vomiting, euphoria, visual disturbances and unconsciousness.
Signs and Symptoms of Chronic Overexposure:	Prolonged or repeated overexposure may cause delayed effects involving the kidneys, liver and blood. Repeated ingestion of ethanol by pregnant mothers has been showed to cause birth defects.
Medical Conditions Generally Aggravated By Exposure:	Persons with pre-existing eye, skin, kidney or liver disorders.
<u>Potential Health Effects:</u>	

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SECTION III - HAZARD IDENTIFICATION

Eyes:	May cause irritation with redness, tearing and blurred vision.
Skin:	Skin contact may cause irritation and defatting of the skin. Methanol may be absorbed through the skin in toxic amounts with symptoms similar to ingestion.
Ingestion:	Swallowing may cause gastrointestinal irritation, nausea, vomiting, dizziness, drowsiness, euphoria, staggering gait, visual disturbances, coma and death. This product contains methanol that is highly toxic and may produce severe acidosis, blindness or death.
Inhalation:	Inhalation may cause respiratory irritation. High vapor concentrations may cause headache, dizziness, drowsiness, nausea and vomiting.
<u>Carcinogenicity:</u>	
NTP:	No
IARC:	No
OSHA:	No
ACGIH:	No
OTHER:	No

SECTION IV - FIRST AID MEASURES

Eyes:	Immediately flush eyes with plenty of cool to lukewarm water, holding eye lids open to assure thorough rinsing. Get medical attention if irritation persists.
Skin:	Remove contaminated clothing. Wash exposed area with soap and water. Get medical attention if irritation persists.
Ingestion:	If swallowed, immediately call the Poison Control or Hospital Emergency Department. Never give fluids if the victim is unconscious or drowsy.
Inhalation:	Remove person to fresh air. If irritation or pulmonary symptoms develop, consult a physician.

SECTION V - FIRE FIGHTING PROCEDURES

Flammable Limits in Air (% by Volume):	LEL: 3.3% (ethanol) UEL: 19.0 (ethanol)
Flash Point:	77°F (25°C) CC
Autoignition Temperature:	Not determined
Extinguishing Media:	Use alcohol foam, carbon dioxide or dry chemical. This product may float on the surface of water and re-ignite.
Fire Fighting Instructions:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Cool fire exposed container with water.
Unusual Fire and Explosion Hazards:	Flammable liquid. Vapors are heavier than air and may travel to a remote ignition source and flashback.
Known or Anticipated Hazardous Products of Combustion:	May produce carbon monoxide, carbon dioxide and aldehydes.

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SECTION VI - ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:	Extinguish ignition sources and ventilate the area. Contain spill or leak. Absorb with an inert absorbent and place into a suitable container for disposal. Thoroughly wash spill site with water.
Personal Precautions:	Avoid contact with eyes, skin and clothing. Avoid breathing vapors.
Environmental Precautions:	It is recommended to ventilated the area and prevent vapors from settling in low or confined area.
Methods for Cleanup:	Collect with an inert absorbent material.
Large Spill:	Not sold in large quantities.
Small Spill:	Collect with an inert absorbent and place into a suitable container. Wash spill site with water.

SECTION VII - HANDLING AND STORAGE

Handling:	Avoid inhalation of vapors or mists. Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Wash thoroughly after handling. Keep container closed when not in use.
Storage:	Store in a cool, dry, well ventilated area. Keep container closed. Keep away from heat, sparks and open flames. Keep out of the reach of children.
Other Precautions:	Static sparks may ignite vapors. Use proper handling and grounding during liquid transfer.

SECTION VIII - EXPOSURE CONTROLS & PERSONAL PROTECTION

Engineering Controls:	None required with normal use.
Ventilation Requirements:	General office ventilation is adequate under normal use conditions. If large amounts are used, special ventilation is required.
Personal Protective Equipment:	
Eye/Face Protection:	Safety glasses should be worn to prevent eye contact.
Skin Protection:	Neoprene or PVC coated gloves are recommended for prolonged skin contact.
Respiratory Protection:	None needed under normal use conditions. In operations where the TLV is exceeded, a NIOSH/MSHA approved organic vapor respirator with a mist pre-filter or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration, select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.
Other Protective Clothing or Equipment:	Not required under normal use conditions.
Exposure Guidelines:	See Section II

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SECTION IX - PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Clear, colorless liquid with an alcohol odor.
Boiling Point:	206°F (97°C)
Color:	Clear, colorless
Evaporation Rate:	Not determined
Freezing Point:	Not determined
Melting Point:	Not applicable
Octanol/Water Partition Coefficient:	No data
Odor:	Alcohol odor
Odor Threshold:	Not applicable
Percent Volatile:	100%
pH Value:	Not applicable
pH Concentration:	Not applicable
Physical State:	Liquid
Reactivity in Water:	None
Solubility in Water:	High
Specific Gravity or Density (Water=1):	0.8
Vapor Density:	Greater than 1.4
Vapor Pressure:	36 mmHg
Vapor Pressure Temperature:	@ 20°C
Viscosity:	Not applicable
Volatile Organic Compounds:	Not determined
Water/Oil Distribution Coefficient:	No data
Weight Per Gallon:	No data available

SECTION X - STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	None
Incompatibility With Other Materials:	Avoid strong oxidizing agents.
Hazardous Decomposition Products:	May produce carbon monoxide, carbon dioxide and aldehydes.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Not applicable

SECTION XI - TOXICOLOGICAL INFORMATION

VALUE	ANIMAL	ROUTES	COMPONENTS
LC50: 16,000 ppm/8 hours	Rat	Inhalation	Ethanol
LD50: 6.2-17.8 g/kg	Rat	Oral	Ethanol
LC50: >22,500 ppm/8 hours	Rat	Inhalation	Methanol
LD50: 6200 mg/kg	Rat	Oral	Methanol
LC50: 12,000 ppm/8 hours	Rat	Inhalation	Isopropanol
LD50: 5.8 g/kg	Rat	Oral	Isopropanol
LD50: 3,000-10,000 mg/kg	Rat	Oral	Tripropylene Glycol
LD50: >16,300 mg/kg	Rabbit	Skin	Tripropylene Glycol

Additional Information

Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect

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SECTION XI - TOXICOLOGICAL INFORMATION

the central nervous system of the fetus, resulting in fetal alcohol syndrome. Effects include mental and physical retardation, disturbances of learning, motor and language deficiencies, behavioral disorders and small head size.

SECTION XII - ECOLOGICAL INFORMATION

Ecological Information: No data available.

SECTION XIII - DISPOSAL CONSIDERATIONS

Disposal Considerations: Dispose in accordance with local, state, and federal regulations.

SECTION XIV - TRANSPORT INFORMATION

U.S. DOT

Proper Shipping Name: Denatured Alcohol
Hazard Class: 3
ID Number: NA1978
Packing Group: II
Labels: Flammable Liquid
Special Provisions: None for Non-Bulk
Packaging Exceptions: 173.150
Non-Bulk Packaging: 173.202
Bulk Packaging: 173.242
Air/Rail Limit: 5 L (Passenger Aircraft)
Air Cargo Limit: 60 L
Vessel Stowage: B
Other Stowage: None
Reportable Quantity: 142,800 lbs.

AIR - ICAO OR IATA

Proper Shipping Name: Flammable liquid, n.o.s. (ethanol, methanol, isopropanol)
Hazard Class: 3
ID Number: UN1993
Risk: None
Packing Group: II
Hazard Labels: Flammable Liquid
Packing Instructions: 305
Air Passenger/Cargo Limit Per Package: 5 L
Packing Instruction - Cargo: 307
Air Cargo Limit Per Package: 60 L
Special Provisions Code: A3

WATER - IMDG

Proper Shipping Name: ALCOHOL DENATURED

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SECTION XIV - TRANSPORT INFORMATION

Hazard Class: 3.2
ID Number: UN1170
Packing Group: II
Risk: NONE
Emergency Procedures Code: 3-06
Medical First Aid Guide Code: 305, 306

SECTION XV - REGULATORY INFORMATION

U.S. Federal Regulations: See below
State Regulations: This product does not contain any chemicals subject to California Proposition 65.

International Regulations: EU: Labeling Classification: Highly Flammable, Harmful R11, R20/22, S2, S46, S16, S51. All of the components are listed on the EINECS inventory.
Canada: Class 2, Division 2, Flammable liquid; Class D, Division 2, Subdivision B, Toxic material causing other chronic effects. All of the components are listed in the Canadian DSL.
Japan: All of the components are listed on the Japanese MITI inventory.
Australia: All of the components are listed on the Australian AICS inventory.

SARA Hazards:

Acute: Yes
Chronic: Yes
Reactive: No
Fire: Yes
Pressure: No

Additional Information

This product does not contain chemical or chemical compounds listed in the following SARA Title III categories: Extremely Hazardous Substances (302).
SARA 313 (Toxic Chemical Release Reporting): Methanol 1-5
All the components of this product are listed in the EPA TSCA Inventory.

SECTION XVI - OTHER INFORMATION

NFPA Codes:

Health: 2
Flammability: 3
Reactivity: 0
Other: 0

HMIS Codes:

Health: 2*
Flammability: 3
Reactivity: 0
Protection:

Other Information: Keep out of reach of children.