MATERIAL SAFETY DATA SHEET

OSHA MEETS 29 CFR 1910.1200 STANDARDS	HMIS HAZARD RATINGS			
PSI	HEALTH	1	0 = INSIGNIFICANT	3 = HIGH
	FLAMMABILITY	1	1 = SLIGHT	4 = EXTREME
	REACTIVITY	0	2 = MODERATE	

TRANSPORTATION INFORMATION

PROPER SHIPPING NAME : Not regulated
HAZARD CLASS / PKG GRP : None / None REF: Not applicable
IDENTIFICATION NUMBER : None LABEL: NONE REQUIRED

SECTION 1 – PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST)
DOUBLEDAY LENS CLEANER

MANUFACTURER'S NAME Practical Systems, Inc.	EMERGENCY TELEPHONE NUMBER (727) 376-7900
ADDRESS (NUMBER, STREET, P.O. BOX) 11617 Prospect Road	TELEPHONE NUMBER FOR INFORMATION (727) 376-7900
(CITY, STATE AND ZIP CODE) Odessa, Florida 33556	DATE PREPARED: May 11, 1997 SUPERCEDES: February 28, 1993

SECTION 2 – HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))	CAS#	% (OPTIONAL)	ACGIH TWA PPM	ACGIH TWA MG/M³	ACGIH STEL PPM	ACGIH STEL MG/M³	SARA TITLE III	RQ LBS
Isopropyl alcohol	67-63-0		400	980	500	1225		

SECTION 3 – HEALTH HAZARD DATA

ROUTES OF ENTRY – SIGNS AND SYMPTOMS OF EXPOSURE	EMERGENCY AND FIRST AID PROCEDURES
INHALATION: High concentrations are irritating to the respiratory tract; may cause headache, dizziness, nausea, vomiting and malaise.	Remove victim to fresh air; provide oxygen if breathing is difficult; administer CPR if victim is not breathing; seek medical attention.
SKIN: Brief contact may cause slight irritation; prolonged contact may cause moderate reddening, swelling and possible necrosis.	Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.
EYES: Contact causes severe irritation and pain associated with redness and swelling of the conjunctiva.	Flush eyes with water for 15 minutes while holding eyelids open; seek medical attention.
INGESTION: Moderately toxic; may cause headache, dizziness, diarrhea and general weakness; large doses may result in red blood cell hemolysis.	Give two glasses of water for dilution; Induce vomiting by sticking fingers down throat; never give anything by mouth to an unconscious person; seek medical attention.

HEALTH HAZARDS (ACUTE AND CHRONIC): Acute effects are possible irritation and discomfort; no long term effects have been established.

CARCINOGENICITY: NTP? No IARC MONOGRAPHS? No OSHA REGULATED? No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting skin, eye, or respiratory disorders may become aggravated through prolonged exposure.

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Date: May 11, 1997

SECTION 4 – FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED)	FLAMMABLE LIMITS LEL:	UEL:
> 200° F	Not applicable	Not applicable

EXTINGUISHING MEDIA
CO_2; water; water fog; dry chemical; chemical foam

SPECIAL FIRE FIGHTING PROCEDURES
Self-contained respiratory equipment; cool containers to prevent pressure buildup and possible explosion when exposed to extreme heat. *Caution – material will support combustion !*

UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers can explode due to buildup of pressure when exposed to extreme heat.

SECTION 5 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: *CAUTION – WILL SUPPORT COMBUSTION.* Do not wash to sanitary sewer. Large spills – confine spill, soak up with approved absorbant, shovel product into approved container for disposal.

SECTION 6 – HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures, open flames. *CAUTION – This material will support combustion. Keep this and other chemicals out of reach of children;* minimize body contact with this product as well as all chemicals in general.

SECTION 7 – EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): None required while threshold limits (Section II) are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn.

VENTILATION LOCAL EXHAUST: Required MECHANICAL (GENERAL): Yes	SPECIAL: To maintain minimum TWA and STEL levels. OTHER: Engineering and work controls as required.
PROTECTIVE GLOVES: Neoprene or rubber	EYE PROTECTION: Goggles with side shields

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety eyebath nearby

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

SECTION 8 – PHYSICAL / CHEMICAL PROPERTIES

BOILING POINT	SPECIFIC GRAVITY (WATER = 1)
212 ° F	0.955
VAPOR PRESSURE (MM HG)	pH
17 mm @ 20° C	Not specified
VAPOR DENSITY (AIR = 1)	EVAPORATION RATE (n-BUTYL ACETATE = 1)
< 1	< 1
SOLUBILITY IN WATER	% VOLATILE (BY WT)
Complete	99 %
APPEARANCE AND ODOR	
Light blue liquid, characteristic alcohol odor	

SECTION 9 – STABILITY AND REACTIVITY

STABILITY	CONDITIONS TO AVOID:
UNSTABLE: STABLE: XXX	Extreme temperatures, open flames

INCOMPATIBILITY (MATERIALS TO AVOID):
Strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
Thermal decomposition may yield CO; CO_2

HAZARDOUS POLYMERIZATION	CONDITIONS TO AVOID:
MAY OCCUR: WILL NOT OCCUR: XXX	None

SECTION 10 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. Refer to "40 CFR Protection of Environment Parts 260-299" for complete waste disposal regulations for combustible materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of *any* chemicals.

Form revised 09 / 95

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