

# MATERIAL SAFETY DATA SHEET

OSHA-MEETS 29 CFR 1910.1200 STANDARDS

HMIS HAZARD RATINGS



HEALTH	1	0 = INSIGNIFICANT	3 = HIGH
FLAMMABILITY	3	1 = SLIGHT	4 = EXTREME
REACTIVITY	0	2 = MODERATE	

**TRANSPORTATION INFORMATION**

PROPER SHIPPING NAME : Flammable liquids, n.o.s. (isopropyl alcohol)  
 HAZARD CLASS / PKG GRP : 3 / III REF: 49 CFR 173.150, .203, .242  
 IDENTIFICATION NUMBER : UN 1993 LABEL: FLAMMABLE LIQUID

## SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST) <b>SIMPLY CLEAN</b>		Page 1 of 2
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 11, 1996	

## SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))	CAS#	% (OPTIONAL)	ACGIH TWA PPM	ACGIH STEL MG/M <sup>3</sup>	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.

**MATERIAL SAFETY DATA SHEET**IDENTITY (AS USED ON LABEL AND LIST)  
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Date: May 11, 1997**SECTION 4 – FIRE FIGHTING MEASURES**FLASH POINT (METHOD USED)  
78 °F (TCC)

FLAMMABLE LIMITS LEL: 2.0 UEL: 12.7

## EXTINGUISHING MEDIA

CO<sub>2</sub>; 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 is flammable!*

## 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 FLAMMABLE* – Evacuate and ventilate area; remove all sources of sparks, ignition and open flames; confine and absorb into approved absorbant; place material into approved containers for disposal; do not wash to sewer or waterway.**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. *CAUTION FLAMMABLE – keep away from all sources of ignition.* "Empty" containers may contain residue which may form explosive vapors. Do not weld or cut near empty container that has not been professionally reconditioned. Use non-sparking tools when opening and closing containers. Maintain well ventilated work areas to minimize exposure when handling this material.**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): YesSPECIAL: 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  
175 °FSPECIFIC GRAVITY (WATER = 1)  
0.955VAPOR PRESSURE (MM HG)  
25 mm @ 20° CpH  
7.0VAPOR DENSITY (AIR = 1)  
2EVAPORATION RATE (n-BUTYL ACETATE = 1)  
1.6SOLUBILITY IN WATER  
Complete% VOLATILE (BY WT)  
100 %

## APPEARANCE AND ODOR

Light blue, transparent liquid, isopropanol odor

**SECTION 9 – STABILITY AND REACTIVITY**

## STABILITY

UNSTABLE: STABLE: XXX

## CONDITIONS TO AVOID:

Extreme temperatures; open flames, sparks

## INCOMPATIBILITY (MATERIALS TO AVOID):

Strong oxidizers, strong acids

## HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Thermal decomposition may yield CO; CO<sub>2</sub>

## HAZARDOUS POLYMERIZATION

MAY OCCUR: WILL NOT OCCUR: XXX

## CONDITIONS TO AVOID:

None

**SECTION 10 – DISPOSAL CONSIDERATIONS**WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. This product may produce concentrated hazardous vapors or fumes in a disposal container creating a dangerous environment. Refer to "40 CFR Protection of Environment Parts 260 – 299" for complete waste disposal regulations for ignitable materials. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. *Do not* flush to sanitary sewer or waterway.

The information contained herein is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of the material even if reasonable safety procedures are followed.

Form revised 06 / 95