

MATERIAL SAFETY DATA SHEET

OSHA-MEETS 29 CFR 1910.1200 STANDARDS

HMIS HAZARD RATINGS



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)
SCRATCH RESISTANT TREATMENT

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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 STEL MG/M ³	SARA TITLE III	RQ LBS
Ethylene glycol (a)	107-21-1	60-100			YES	

(a) A "YES" in the SARA TITLE III column indicates a toxic chemical subject to annual reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

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 and vomiting.

SKIN: No evidence of adverse effects, however, prolonged contact may cause moderate irritation or dermatitis.

EYES: High vapor concentration or contact may cause irritation and discomfort.

INGESTION: May cause abdominal discomfort or pain, nausea, vomiting, dizziness, or possible convulsions or coma; large doses may be fatal.

Remove victim to fresh air, if symptoms persist, seek medical attention.

Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

Flush eyes with water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.

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; consult detailed information guide on ethylene glycol for chronic effects. Harmful or fatal if swallowed.

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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SECTION 4 – FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED) > 200° F	FLAMMABLE LIMITS LEL: Not applicable	UEL: Not applicable
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EXTINGUISHING MEDIA
CO₂; 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: *WILL SUPPORT COMBUSTION.* Evacuate and ventilate area; confine and absorb into absorbant; place material into approved containers for disposal; refer to SARA Title III, Section 313 40 CFR 372 for details concerning reporting requirements.

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.
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PROTECTIVE GLOVES: Neoprene or rubber	EYE PROTECTION: Goggles with side shields
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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 387° F	SPECIFIC GRAVITY (WATER = 1) 1.115
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VAPOR PRESSURE (MM HG) 0.08 mm @ 20° C	VOLATILE ORGANIC COMPOUNDS (VOC'S) None
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VAPOR DENSITY (AIR = 1) 2.1	EVAPORATION RATE (n-BUTYL ACETATE = 1) 0.01
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SOLUBILITY IN WATER Complete	% VOLATILE (BY WT) None
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APPEARANCE AND ODOR
Colorless liquid, characteristic mild odor

SECTION 9 – STABILITY AND REACTIVITY

STABILITY UNSTABLE: STABLE: XXX	CONDITIONS TO AVOID: Extreme temperatures, open flames
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INCOMPATIBILITY (MATERIALS TO AVOID):
Strong oxidizers, strong acids

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:
Thermal decomposition may yield CO; CO₂

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

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 this material even if reasonable safety procedures are followed.