



# MATERIAL SAFETY DATA SHEET

PRODUCT NAME: E.A.S.E. 2000-A Cleaning Concentrate

MSDS# E200203 Effective Date: 02/03/03 Supersedes: 1/3/00 Revisions: Sections 8

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## 1. PRODUCT IDENTIFICATION:

CHEMICAL FAMILY: Detergent  
DOT SHIPPING NAME: COMPOUND CLEANING LIQUID  
(Contains D'limonene)  
DOT HAZARD CLASSIFICATION: Combustible Liquid  
DOT PACKAGING GROUP: III.

CHEMICAL FORMULA: n.a. proprietary mixture  
DOT HAZARDOUS SUBSTANCE? Yes  
RQ: Containers greater than 110 gal.  
UN NUMBER: NA1993  
CAS REGISTRY #: n.a. proprietary mixture

2. HAZARD RATINGS: Health 1 Fire 2 Reactivity 0  
[4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=Insignificant]

Note: Hazard ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all information contained in this MSDS must be considered.

## 3. PHYSICAL DATA:

BOILING POINT: >212° F. VAPOR PRESSURE: 2 mmHg VAPOR DENSITY: >1 SPECIFIC GRAVITY: 0.967  
VOLATILES BY WEIGHT: 24% pH @ 1% SOLUTION: 8.2 SOLUBILITY/WATER: Dispersible  
APPEARANCE AND ODOR: Blue liquid/Citrus odor

## 4. INGREDIENTS

20-30% D-Limonene, CAS #5989-27-5; TLV/TWA (ACGIH): n.e.; PEL/TWA (OSHA): n.e.; Oral: n.e.; Dermal: n.e.;  
Inhalation: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

50-60% Water, CAS #7732-18-5; TLV/TWA (ACGIH): n.e.; PEL/TWA (OSHA): n.e.; Oral: n.e.; Dermal: n.e.; Inhalation: n.e.;  
Skin Effects: n.e.; Eye Effects: n.e.;

20-30% proprietary mixture, TLV/TWA (ACGIH): n.e.; PEL/TWA (OSHA): n.e.; Oral LD50 (rats): n.e.;

SARA TITLE III - A) 311/312 Categories: Immediate (Acute) Health  
B) 313 - Components listed in Section 313: None.  
C) None of this components are listed in Section 302.

CERCLA - No components listed.

None of the ingredients of this product are contained on SARA's Extremely Hazardous Substances List Section 301-303. For RCRA Information See "SPILL, LEAK & DISPOSAL".

## 5. FIRST AID PROCEDURES

EYE CONTACT: OBJECT IS TO FLUSH MATERIAL OUT OF EYES IMMEDIATELY, THEN SEEK MEDICAL ATTENTION.  
Immediately flush eyes with large amounts of water for at least 15 minutes, intermittently holding eye lids apart to ensure rinsing of entire surface of eye and lids. Contact Physician Immediately!

SKIN CONTACT: Flush thoroughly with plenty of warm water, promptly removing contaminated clothing and shoes. Launder contaminated clothing before reuse. Decontaminate or destroy contaminated shoes. Consult Physician if irritation develops or persists.

INHALATION: Move from contaminated area to fresh air. If breathing difficult, oxygen may be administered by trained personnel. If breathing has stopped, give artificial respiration. Get Medical Attention!

INGESTION: DO NOT INDUCE VOMITING! Give victim a quart of water. If vomiting occurs, give fluids again. Never give anything by mouth to a person who is unconscious or having convulsions. Seek Medical Attention! Note to Physician: No specific antidote, treat symptomatically.

## 6. HEALTH HAZARD DATA

OSHA PERMISSIBLE EXPOSURE LIMIT (PEL): n.e. See Section II. "Ingredients" for individual component PEL's.

ACGIH THRESHOLD LIMIT VALUE (TLV): n.e. See Section II. "Ingredients" for individual component TLV's.

CARCINOGEN LISTING? Not containing or considered a carcinogen by OSHA, NTP, OR IARC.

PRIMARY ROUTES OF ENTRY: Skin Contact [X] Eye Contact [X] Inhalation [ ] Ingestion [ ] Skin Absorption [ ]

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None currently known.

### SYMPTOMS OF OVEREXPOSURE:

Acute: Prolonged or repeated contact may be drying and cause irritation to sensitive skin. Will cause irritation to eyes if contacted.

Chronic: None currently known.

## 7. FIRE AND EXPLOSION DATA

FLASH POINT: 121 degrees F. (see 49 CFR 173.150.(f)).

FLAMMABLE LIMITS IN AIR: not determined.

EXTINGUISHING MEDIA: Use media appropriate of surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Self contained breathing apparatus and appropriate protective clothing to prevent contact should be worn when fighting fires involving chemicals.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible liquid. Keep away from heat, sparks and open flame.

## 8. CONTROL MEASURES

Personal protective equipment selections vary based on potential exposure conditions such as handling practices, concentration and ventilation. Use protective clothing which is chemical resistant to this material. Selection of protective clothing depends on potential exposure conditions and may include gloves, boots, suits and other items. The selection should take into account such factors as job task, type of exposure, solution concentration, and durability requirements. Information on the selection of eye, skin, and respiratory protection for use of this material is provided below.

VENTILATION REQUIREMENTS: Local exhaust may be necessary if dusts or sprays are generated.

RESPIRATORY PROTECTION: NIOSH/MSHA approved respirator should be worn where dust, mist or sprays are expected. Maintain, clean, and fit test respirators in accordance with OSHA regulations. Maintain and test ventilation and dust collection equipment.

PROTECTIVE GLOVES: Cloth gloves or rubber gloves.

EYE PROTECTION: Close fitting chemical safety goggles.

**OTHER PROTECTIVE EQUIPMENT:** Rubber boots, rubber apron, coveralls, to prevent gross contact with this product and its solutions. Eye wash fountain, safety shower and wash area should be in immediate work area.

### HYGIENIC PRACTICES IN HANDLING AND STORAGE:

Educate and train employees in the safe use and handling of this product. Avoid contact with eyes. People with sensitive skin should wear impermeable gloves to avoid prolonged contact skin. Wear appropriate protective clothing to prevent gross contact with this product and its solutions. Do not wear contact lenses when handling chemicals as they may increase the severity of injury if product comes in contact with eyes. Never touch eyes or face with hands or gloves that may be contaminated with this product. Clothing, shoes or other protective gear that is contaminated or soaked with this material or its solutions should always be promptly removed and not used until laundered or decontaminated. Avoid breathing dusts. Do not take internally. Wash thoroughly after handling. Wear appropriate protective clothing. Always have water available for First Aid. Store in properly labeled closed containers in cool dry place. For industrial use only. Keep product and its containers out of reach of children. When handling empty containers, all labeled precautions must be observed due to product residues. Do Not reuse containers until they have been professionally cleaned, reconditioned, and old labeling has been removed. Do Not reuse for food or drink.

### SPECIAL PRECAUTIONS FOR REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT:

Rinse and remove any product. Product contains natural soaps which if not rinsed thoroughly may leave surfaces slippery. Maintenance personnel should wear protective equipment and clothing so as to prevent personal contact and should be informed regarding necessary precautions applicable to this product.

### 9. SPILL OR LEAK PROCEDURES

Recovery and reuse rather than disposal, should be the ultimate goal of handling efforts.

May cause slippery footing! Wear appropriate protective clothing as stated under "Control Measures". **SMALL SPILLS:** Mop up or soak up with absorbent material. Flush area with water. **LARGE SPILLS:** Eliminate sources of ignition. Dike spill area. Cover with non-combustible absorbents such as earth or sand. Do not flush undiluted material to sewers or waterways. Place in approved disposal container. Move leaking containers to a containment area. Decontaminate clothing before reuse.

If spilled on the ground, contaminated soil should be removed and placed in proper containers for disposal. Do not flush material to public sewer or waterway. D-limonene contained in product may be toxic to aquatic organisms. Decontaminate all tools and equipment following cleanup. None of the ingredients are currently listed as a substance or a source waste under current RCRA regulations.

Waste Disposal: Incinerate or dispose of in accordance to federal, state and local regulations.

### 10. REACTIVITY DATA:

**STABILITY:** Stable. **CONDITIONS TO AVOID:** Excessive heat.

#### **INCOMPATIBILITY-**

**MATERIALS TO AVOID:** Strong oxidizing agents, acidic agents, including acidic clays, peroxides, halogens, vinyl chloride, and iodine pentafluoride

**HAZARDOUS POLYMERIZATION:** None described.

**CONDITIONS TO AVOID POLYMERIZATION:** Polymerization catalysts such as aluminum chloride and acidic clays.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Smoke may be acrid and fume irritating. Burning generates Carbon dioxide, Carbon monoxide, and smoke. Product is not an oxygen donor.

CAS# = Chemical Abstract Registry Number; TLV = Threshold Limit Value; TWA = Time Weight Average; PEL = Permissible Exposure Limit; ACGIH = American Conference of Governmental Industrial Hygienists; OSHA = Occupation Safety and Health Administration; LD50 = Lethal Dose 50%; LC50 = Lethal Concentration 50%; n.e. = not established; n.a. = not applicable.

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