

## Material Safety Data Sheet EXP 2000 DETERGENT/DISINFECTANT

Product Hazard: Health: 1 Fire: 1 Reactivity: 0  
Hazard Rating: 4 = Deadly 3 = Extreme 2 = Hazardous 1 = Slight Hazard 0 = Normal

### Section 1: Identification 06/10/08

|  |   |
|--|---|
| <b>Product:</b> <u>EXP 2000 Detergent / Disinfectant</u> | <b>Product Type:</b> <b>Liquid</b>  |
| Manufacturer   | APDC, Inc.  |
| Distributor  | Orison Marketing, L.L.C. (Cage Code 1GZV7)<br>4801 South Danville Dr.<br>Abilene, TX 79602 800-460-2403 |
| Phone Numbers  | Medical - 800-228-5635  |
| 24 hour Emergency  | Chemtrec - 800-424-9300 Chemtrec Int'l - 703-527-3887   |

### Section 2: Composition, Information of Ingredients

| Hazardous Component  | CAS#       | %      | TLV  |
|--|------------|--------|------|
| Diethylene glycol monobutyl ether  | 112-34-5   | 8%     | N.E. |
| Alkyl dimethyl benzyl ammonium chloride (C12-18)                                     | 68391-01-5 | 0.105% | N.E. |
| Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride (Alt CAS 68956-79-6) | 85409-23-0 | 0.105% | N.E. |

### Section 3: Hazards Identification

Emergency Overview: ( Acute and Chronic )  
Potential Health Effects:  
**Eye:** This product may cause irritation to the eyes.  
**Skin:** This product may cause irritation to the skin.  
**Inhalation:** Exposure via inhalation not likely. High vapor or aerosol mist concentrations may be irritating to the nose, throat and upper respiratory tract.  
**Ingestion:** Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract. Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.  
**Chronic effects of exposure:** Repeated overexposure may result in delayed kidney injury.

### Section 4: First Aid Measures

**If on Skin:** Immediately take off all contaminated clothing. Wash contaminated clothing before reuse. For skin contact, flush with large amounts of water. If irritation persists, get medical attention.  
**If in Eyes:** Immediately flush eyes with lots of running water for 15 minutes, lifting the upper and lower eye lids occasionally. If irritation persists, consult physician.  
**If Swallowed:** Do not induce vomiting. If ingestion of a large amount does occur, seek medical attention. Never give anything by mouth to a victim who is unconscious or is having convulsions.  
**If Inhaled:** If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Seek medical attention.

### Section 5: Fire Fighting Measures

|                                     |  |
|-------------------------------------|--|
| Flash point (PMCC): >93.9C, >201F   | N.E. Deg F   |
| Flammable limits in air:            | LEL: n/a UEL: n/a  |
| Extinguishing media:                | Carbon Dioxide, Dry Chemical, Water Spray, Universal type foam |
| Unusual fire and explosion hazards: | None   |
| Hazardous decomposition             | Carbon dioxide, carbon monoxide, nitrogen oxides, ammonia      |
| Hazard classification:              | OSHA: None DOT: None   |

### Section 6: Accidental Release Measures

Emergency Action:  
Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Wear appropriate personal protective equipment during cleanup.  
Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal  
Large Spills: Dike ahead of liquid spill for later disposal. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**Section 7: Handling and Storage**

Avoid contact with skin and eyes. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

**Section 8: Exposure Controls, Personal Protection**

Respiratory protection: None required in normal use.  
Ventilation: Normal ventilation is adequate.  
Protective Gloves: Use impervious gloves. Wear suitable protective clothing.  
High protection equipment: Eye wash fountain and emergency showers are recommended. **Diethylene glycol monobutyl ether 112-34-5**  
NIOSH - Health Standards - Exposure Limits reduce exposure to lowest feasible concentration  
Work hygienic practices: Ensure that strict sanitary conditions are conformed to working around chemicals.

**Section 9: Physical and Chemical Properties**

|                              |                            |                                 |          |
|------------------------------|----------------------------|---------------------------------|----------|
| Appearance: Colorless liquid | Boiling point: >212 deg. F | Specific Gravity: 1.007         | pH: 11.7 |
| Soluble H2O: 100%            | Evaporation Rate: < ether  | Vapor Density: Heavier than air |          |

**Section 10: Stability and Reactivity**

Stability: Stable under normal use and storage.  
Incompatibility: Strong bases at high temperatures. Strong oxidizing agents. Slightly corrosive to aluminum and copper  
Hazardous decomposition: Carbon dioxide, carbon monoxide, nitrogen oxides, ammonia  
Polymerization: Non will occur.

**Section 11: Toxicological Information****Carcinogenicity**

Not listed as carcinogenic according to IARC, NTP or OSHA.

**Tetra sodium ethylenediamine tetra acetic acid (Na4 EDTA) 64-02-8**

Toxicology Data - Selected LD50s and LC50s Oral LD50 Rat: 1658 mg/kg

**Water 7732-18-5**

Toxicology Data - Selected LD50s and LC50s Oral LD50 Rat: >90 mL/kg

**Diethylene glycol monobutyl ether 112-34-5**

Toxicology Data - Selected LD50s and LC50s Oral LD50 Rat: 3384 mg/kg; Dermal LD50 Rabbit: 2700 mg/kg

**Section 12: Ecological Information****Ecotoxicity**

Toxic to fish. Toxic to aquatic organisms.

**Section 13: Disposal Consideration****Disposal Instructions**

**CONTAINER DISPOSAL:** Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. For containers 1 gallon or less: Do not reuse empty container (bottle, can, bucket). Wrap container and put in trash.

**PESTICIDE DISPOSAL -** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Section 14: Transportation Information**

|                  |                                   |
|------------------|-----------------------------------|
| Domestic(ground) | International(ground, air, water) |
| Shipping Name:   | Consumer Commodity                |
| Hazardous Class: | N/A                               |
| UN Number:       | N/A                               |
| Packaging Group: | N/A                               |
| Hazard Label:    | N/A                               |

**Section 15: Other Information**

Wash hands thoroughly after use. Use with adequate Ventilation.

**Section 16: Regulatory Information****Diethylene glycol monobutyl ether 112-34-5**

CAA (Clean Air Act) - 1990 Hazardous Air [present] (includes mono- and di- ethers of Ethylene glycol, Pollutants and Triethylene glycol as specified by referenced formula)

CERCLA/SARA - Section 313 - Emission concentration; Chemical Category N230; (applies to R-(OCH2CH2)n-OR'''' ethers, where n = 1,2, or 3''''; R=alkyl C7 or less or R = phenyl or alkyl subst. phenyl; R'''' = H or alkyl C7 or less, or OR'''' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate)

EPA - Designated Generic Categories - Certain RR-00067-9

## Glycol Ethers

TSCA (Toxic Substances Control Act) - Section 4 40 CFR 799.1560  
- Chemical Test Rules (40 CFR 79)

### U.S. Federal Regulations

#### Ingredient Name CAS Number Percent

\_Diethylene glycol monobutyl ether 112-34-5 8 %

\_Alkyl dimethyl benzyl ammonium chloride (C12-18) 68391-01-5 0.105 %

\_Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride 85409-23-0 0.105 %

(Alt CAS 68956-79-6)

### State Regulations

This product may contain the following ingredient(s) known to the State of California to cause cancer, birth defects or other reproductive harm: Ethylene Oxide (CAS RN: 75-21-8) Nitrilotriacetic acid (NTA) (CAS RN: 139-13-9)

### Inventories

This product is considered a pesticide, and is therefore excluded from the United States TSCA Regulations.

There is no calculable reportable quantity (RQ) for this product.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and is not valid for such material used in combination with any other materials or in any process, unless specified in the text.