



PO BOX 16458 • FRESNO CA 93755

# MATERIAL SAFETY DATA SHEET

PRODUCT/TRADE NAME:

## CAYUSE PLUS

### I. NAME

PRODUCT/TRADE NAME: CAYUSE PLUS  
EPA REGISTRATION #: NONE  
CHEMICAL NAME/Common Name:  
Ethane-1, 2-Diol/Ethylene Glycol  
Ammonium Sulfate/Ammonium Sulfate  
Alcohol Ethoxylate phosphate ester/Alcohol Ethoxylate

### II. HAZARDOUS INGREDIENTS

	CAS#	OSHA PEL	ACGIH TLV
Ethylene Glycol	107-21-1	50 ppm	50 ppm
Ammonium Sulfate	7783-20-2	NE	NE
Alcohol Ethoxylate	8921-24-4	NE	NE

### III. PHYSICAL DATA

SPECIFIC GRAVITY (H2O = 1): 1.23  
MELTING POINT: NA  
VAPOR DENSITY (AIR = 1): >1  
% VOLATILES BY VOL.: NE  
ODOR: Mild  
APPEARANCE: Amber Liquid  
FLASH POINT/METHOD: NA  
VAPOR PRESSURE (mmHg): NE  
SOLUBILITY IN H2O: Soluble

### IV. FIRE & EXPLOSION HAZARD

EXTINGUISHING MEDIA:  Water Fog  Foam  Alcohol Foam  
 CO2  Dry Chemical  Other  
FIRE FIGHTING PRECAUTIONS & HAZARDS:  
Fight fire upwind. Wear positive pressure self-contained breathing apparatus and full protective equipment. Avoid breathing spray mist. Avoid fallout and runoff. Dike to prevent entering drains, sewers, or water courses. Evacuate people downwind from fire.

### V. CARCINOGEN STATUS

OSHA  NTP  IARC  No Listing Type

### VI. REACTIVITY

Stable  HAZARDOUS POLYMERIZATION  
 Unstable  May Occur  Will Not Occur  
AVOID: Oxidizers, Liquid chlorine, Concentrated O2  
HAZARDOUS DECOMPOSITION PRODUCTS: COx, SOx, NOx

### VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL: Wear appropriate respiratory and personal protective equipment. Absorb with inert material. Vacuum or sweep up and place in approved disposal container.  
DECONTAMINATION: Treat spill area with detergent and water. Absorb with inert material and place in approved container. Repeat as necessary until area is clean.  
ENVIRONMENTAL HAZARDS: Dike to prevent entering drains, sewers or water courses.  
DISPOSAL: Place in DOT-approved container and dispose of in an approved disposal site.

### VIII. HEALTH PRECAUTION DATA

INGESTION: Acute oral LD50 (rat) is >2000 mg/kg (WECO). Wash thoroughly before eating, drinking or smoking. Do not ingest. Do not store near food or feed.  
INHALATION: The PEL/TLV for Ethylene Glycol is 50 ppm. This is a ceiling limit. High concentrations can cause respiratory irritation. Wear appropriate respiratory protection for exposures above the PEL/TLV.  
SKIN ABSORPTION: Acute Dermal LD50 (rat) is 2000 mg/kg (WECO). Can cause mild skin irritation or dermatitis after prolonged contact. Wear proper personal protective equipment to reduce exposure.  
EYE EXPOSURE: May be mildly irritating to the eyes. If exposed, flush eyes for a minimum of 15 minutes with water. Wear proper eye protection to reduce

splash exposure.  
EFFECTS OF OVEREXPOSURE: May cause eye and corneal irritation. May cause skin irritation, dermatitis, red skin and scaling. Chronic exposure may cause liver and kidney damage. Preexisting medical conditions involving the above symptoms may be aggravated by exposure.  
FIRST AID: In all cases, get prompt medical attention. If ingested, give several glasses of water. Do not induce vomiting. For skin exposure, remove contaminated clothing and wash with soap and water. For eye contact, irrigate for a minimum of 15 minutes with water. If inhaled, remove victim to fresh air, and administer CPR if necessary.

### IX. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Wear only NIOSH/MSHA - approved respirator for organic vapors for exposures up to 10 times the PEL/TLV. Positive pressure self-contained breathing apparatus should be used for confined space entry and exposures above 10 times the PEL/TLV.  
PERSONAL PROTECTIVE EQUIPMENT: Long-sleeved coveralls, chemical goggles and rubber or neoprene gloves.  
VENTILATION: Local exhaust ventilation recommended for manufacture and formulation operations.

### X. SPECIAL PRECAUTIONS

Keep out of the reach of children. Read and follow all label instructions.

### XI. REGULATORY DATA

SARA HAZARD CLASS:  Acute  Chronic  Flammable  
 Pressure  Reactive  None

SARA 313:  Yes  No Chemical:

SARA 302:  Yes  No Chemical:

TPQ:

CERCLA:  Yes  No Chemical:

RO:

RCRA:  Yes  No

NFPA HAZARD RATING:

Health:	NFPA HAZARD RATING SCALE:	
Fire: [2]	0 = Minimal	3 = Serious
Reactivity: [1]	1 = Slight	4 = Severe
Special: [0]	2 = Moderate	

HMIS CODE5: }

Health:	HMIS HAZARD RATING SCALE:	
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DATE PREPARED: November 4, 1992

REVISED DATE: June 27, 2007

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\*Technical Material NE - Not Established NA - Not Applicable

## 24 Hour Emergency Phone Number CHEMTREC: (800) 424-9300

