



**CHEMICAL ASSOCIATES**  
1270 South Cleveland-Massillon Road  
Building B  
Copley, OH 44321-1683

## MATERIAL SAFETY DATA SHEET

**EMERGENCY PHONE: 800-347-2891**  
**MSDS REFERENCE: CA7502**

**CHEMTREC: 800-424-9300**

### SECTION I - IDENTIFICATION

**PRODUCT:** CA7502 FATTY ALCOHOL C1214 + 2EO  
**SYNONYMS:** ETHOXYLATED FATTY ALCOHOL  
**CHEMICAL:** ALCOHOL C12-C14 POLY(2)ETHOXYLATE  
**CAS NO:** 68439-50-9  
**SARA HAZARD:** ACUTE (SECTION 311/312)  
TITLE III SECTION 313 - NOT LISTED  
TITLE III SECTION 302/304  
RESIDUAL ETHYLENE OXIDE (75-21-8) <0.001% , TPQ 1000, RQ 10

### SECTION II - INGREDIENTS AND HAZARD CLASSIFICATION

COMPOSITION	%	PEL/TLV	HAZARD
C1214 ALCOHOL, ETHOXYLATED (68439-50-9)	100	NONE/NONE	SARA 302/304

### SECTION III - HEALTH INFORMATION

**INHALATION:** VAPORS OR MIST ESPECIALLY AS GENERATED FROM HEATING THE MATERIAL OR AS FROM EXPOSURE IN POORLY VENTILATED AREAS OR CONFINED SPACES, MAY BE IRRITATING AND CAUSE DISCOMFORT IN NOSE AND THROAT, NASAL DISCHARGE, AND COUGHING. PROLONGED OVEREXPOSURE MAY CAUSE DIFFICULT BREATHING

**INGESTION:** MAY CAUSE ABDOMINAL DISCOMFORT, NAUSEA, AND DIARRHEA. ASPIRATION MAY OCCUR DURING SWALLOWING OR VOMITING, RESULTING IN LUNG DAMAGE.

**EYE CONTACT:** CAUSES IRRITATION, EXPERIENCED AS PAIN, WITH EXCESSIVE BLINKING AND TEAR PRODUCTION, AND SEEN AS MARKED EXCESSIVE REDNESS AND SWELLING OF THE EYE WITH INJURY TO THE CORNEA.

**SKIN CONTACT:** BRIEF CONTACT MAY CAUSE SLIGHT IRRITATION. NO ACUTE SHORT TERM EFFECTS ARE EXPECTED FROM BRIEF CONTACT WITH THE SKIN. PLEASE NOTE ADDITIONAL COMMENTS REGARDING

POTENTIAL LONG TERM EFFECTS.

#### SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

**PEL:** RESIDUAL ETHYLENE OXIDE 1.0 PPM /8 HR WEIGHTED EXPOSURE  
**TLV:** NO ACGIH TLV

#### SECTION V - EMERGENCY FIRST AID PROCEDURE

**INGESTION:** GIVE TWO (2) GLASSES OF WATER. **DO NOT INDUCE VOMITING.**  
CALL A PHYSICIAN OR POISON CONTROL CENTER PROMPTLY.

**INHALATION:** IMMEDIATELY REMOVE VICTIM TO FRESH AIR. IF VICTIM HAS  
STOPPED BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY  
BY MOUTH TO MOUTH. GET MEDICAL ATTENTION IMMEDIATELY.

**EYE CONTACT** IMMEDIATELY FLUSH EYES WITH PLENTY OF COOL WATER FOR AT  
LEAST 15 MINUTES. DO NOT LET VICTIM RUB EYES. SEEK MEDICAL  
ATTENTION IF IRRITATION PERSISTS.

**SKIN CONTACT:** WASH CONTAMINATED AREAS WITH PLENTY OF SOAP AND WATER.  
GET MEDICAL ATTENTION IF SKIN IRRITATION DEVELOPS OR  
PERSISTS. WASH CONTAMINATED CLOTHING BEFORE REUSE.

#### SECTION VI - PHYSICAL DATA

**BOILING POINT:** > 100C/212 DEG F  
**VAPOR PRESSURE:** NOT DETERMINED  
**SPECIFIC GRAVITY:** 0.944 – 0.947 @ 25C/77F  
**VAPOR DENSITY (AIR=1):** NOT DETERMINED  
**SOLUBILITY IN WATER:** <0.1 INSOLUBLE  
**APPEARANCE AND COLOR:** CLEAR LIQUID

#### SECTION VII - FIRE AND EXPLOSION HAZARDS

**FLASH POINT AND METHOD USED:** >200 DEG C/>392 DEG F (PMCC)  
**FLAMMABLE LIMITS IN AIR, % BY VOL. LOWER:** NOT DETERMINED  
**FLAMMABLE LIMITS IN AIR, % BY VOL. UPPER:** NOT DETERMINED  
**NFPA RATING: HEALTH: (3) FIRE: (1) REACTIVITY: (0)**  
**HMIS RATING: HEALTH: (3) FIRE: (1) REACTIVITY: (0)**

#### **SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:**

INDIVIDUALS SHOULD PERFORM ONLY THOSE FIRE FIGHTING PROCEDURES FOR WHICH THEY HAVE BEEN TRAINED. USE WATER SPRAY, DRY CHEMICAL, FOAM OR CARBON DIOXIDE. USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL. IF A SPILL OR LEAK HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS. WATER SPRAY MAY BE USED TO FLUSH SPILLS AWAY FORM FIRE AND TO DILUTE SPILLS TO NONFLAMMABLE MIXTURES.

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS:**

FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS IN THE POSITIVE-PRESSURE MODE WITH A FULL FACEPIECE WHEN THERE IS A POSSIBILITY OF EXPOSURE TO SMOKE, FUMES, OR HAZARDOUS DECOMPOSITION PRODUCTS.

## SECTION VIII - REACTIVITY

<b>STABILITY:</b>	GENERALLY STABLE
<b>HAZARDOUS POLYMERIZATION:</b>	NONE LIKELY
<b>CONDITIONS AND MATERIALS TO AVOID:</b>	KEEP AWAY FROM HEAT AND FLAMES. AVOID CONTACT WITH OXIDIZING MATERIALS.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	TOXIC LEVELS OF CARBON MONOXIDE, CARBON DIOXIDE, IRRITATING ALDEHYDES AND KETONES MAY BE FORMED ON BURNING; HEATING IN AIR MAY PRODUCE IRRITATING ALDEHYDES, ACIDS, AND KETONES.

## SECTION IX - EMPLOYEE PROTECTION

### **CONTROL MEASURES:**

HANDLE IN THE PRESENCE OF ADEQUATE VENTILATION. MECHANICAL VENTILATION IS RECOMMENDED. USE LOCAL EXHAUST VENTILATION AT THE SOURCE OF HEATED VAPORS.

### **RESPIRATORY PROTECTION:**

USE A NIOSH APPROVED ORGANIC VAPOR RESPIRATOR WHEN EXPOSED TO VAPOR FROM HEATED MATERIAL. USE A NIOSH APPROVED SUPPLIED-AIR RESPIRATOR DURING EMERGENCY SITUATIONS.

### **PROTECTIVE CLOTHING:**

WEAR GLOVES AND PROTECTIVE CLOTHING WHICH ARE IMPERVIOUS TO THE PRODUCT FOR THE DURATION OF ANTICIPATED EXPOSURE IF THERE IS POTENTIAL FOR PROLONGED OR REPEATED SKIN CONTACT.

### **EYE PROTECTION:**

WEAR SAFETY GLASSES MEETING THE SPECIFICATIONS OF ANSI STANDARD Z87.1 WHERE NO CONTACT WITH THE EYE IS ANTICIPATED. CHEMICAL SAFETY GOGGLES MEETING THE SPECIFICATIONS OF ANSI STANDARD Z87.1 SHOULD BE WORN WHENEVER THERE IS THE POSSIBILITY OF SPLASHING OR OTHER CONTACT WITH THE EYES.

## SECTION X - ENVIRONMENTAL PROTECTION

### **ENVIRONMENTAL PRECAUTIONS:**

AVOID UNCONTROLLED RELEASES OF THIS MATERIAL. WHERE SPILLS ARE POSSIBLE, A COMPREHENSIVE SPILL RESPONSE PLAN SHOULD BE DEVELOPED AND IMPLEMENTED.

### **SPILL OR LEAK PRECAUTIONS:**

WEAR APPROPRIATE RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING AS DESCRIBED IN SECTION IX. CONTAIN SPILLED MATERIAL. TRANSFER TO SECURE CONTAINERS. WHERE NECESSARY, COLLECT USING ABSORBENT MEDIA. IN EVENT OF AN UNCONTROLLED RELEASE OF THIS MATERIAL, THE USER SHOULD DETERMINE IF THE RELEASE IS REPORTABLE UNDER APPLICABLE LAWS AND REGULATIONS.

**WASTE DISPOSAL:**

ALL RECOVERED MATERIAL SHOULD BE PACKAGED, LABELED, TRANSPORTED, AND DISPOSED OR RECLAIMED IN CONFORMANCE WITH APPLICABLE LAWS AND REGULATIONS AND IN CONFORMANCE WITH GOOD ENGINEERING PRACTICES. AVOID LANDFILLING OF LIQUIDS. RECLAIM WHERE POSSIBLE.

<b>SECTION XI - REGULATORY CONTROLS</b>
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**DEPARTMENT OF TRANSPORTATION:**

**DOT CLASSIFICATION:** REGULATED  
**DOT PROPER SHIPPING NAME:** ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (ALCOHOL C12-C14, POLY (1-6) ETHOXYLATE)  
**OTHER DOT INFORMATION:** HAZARD CLASS 9, ID NUMBER: UN3082, PACKING GROUP III LABEL AS CLASS 9 + MARINE POLLUTANT MARK  
MARINE POLLUTANT: ALCOHOL C12-C14 POLY (1-6) ETHOXYLATE

**OTHER REGULATORY REQUIREMENTS:**

LISTED IN TSCA INVENTORY  
LISTED IN CANADIAN DSL INVENTORY  
LISTED IN EUROPEAN INVENTORY  
LISTED IN AUSTRALIAN INVENTORY  
LISTED IN JAPAN INVENTORY

**CERCLA HAZARDOUS MATERIALS:**

102(a)/DOT HAZARDOUS SUBSTANCE:  
RESIDUAL ETHYLENE OXIDE (TYPICAL) 75-21-8 <0.001% TPQ: 1000, RQ: 10

**SARA TITLE III:**

SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCES

CHEMICAL NAME:

RESIDUE ETHYLENE OXIDE (75-21-8) <0.001 %

SECTION 313 TOXIC CHEMICAL

NONE

**STATE RIGHT TO KNOW REGULATIONS:**

CALIFORNIA PROP.65:  
THE FOLLOWING DETECTABLE COMPONENT OF THIS PRODUCT ARE SUBSTANCES, OR BELONG TO CLASSES OF SUBSTANCES, KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND/OR REPRODUCTIVE TOXICITY.

RESIDUAL ETHYLENE OXIDE (CAS #: 75-21-8)

**INTERNATIONAL REGULATIONS:**

WHMIS CLASSIFICATION: CLASS D, DIV 2, SUBDIV.B IRRITANT

**OTHER INFORMATION:**

ETHOXYLATED PRODUCTS MAY CONTAIN RESIDUAL AMOUNTS OF ETHYLENE

OXIDE TAHT CAN ACCUMULATE IN THE CONTAINER HEADSPACE AND BE RELEASED INTO THE AMBIENT ENVIRONMENT. THIS PROCESS IS ENHANCED WHEN THE PRODUCT IS AGITATED, AS DURING TANK CAR LOADING AND UNLOADING, AND BLENDING OPERATIONS. ETHYLENE OXIDE CAUSES TUMORS IN LABORATORY ANIMALS. THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) PERMISSIBLE EXPOSURE LEVEL (PEL) FOR ETHYLENE OXIDE IS 1.0 PPM FOR AN 8 HOUR TIME WEIGHTED AVERAGE EXPOSURE. THE STANDARD REGULATES OCCUPATIONAL EXPOSURE TO EO FROM ALL SOURCES, INCLUDING PRODUCTS CONTAINING RESIDUAL EO. IT IS THE RESPONSIBILITY OF THE EMPLOYER TO COMPLY WITH OSHA ETHYLENE OXIDE STANDARD (29 CFR 1910.1047)

**TRANSPORT INFORMATION:**

**DOT:**

PROPER SHIPPING NAME:

ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID,N.O.S. (ALCOHOL C12-C14, POLY (1-6) ETHOXYLATE

HAZARD CLASS:

9

IDENTIFICATION NUMBER:

UN3082

PACKING GROUP

III

LABEL REQUIRED:

CLASS 9 + MARINE POLLUTANT MARK

MARINE POLLUTANT (ALCOHOL C12-C14 POLY (1-6) ETHOXYLATE

**IMDG, TDG and ICAO**

PROPER SHIPPING NAME:

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MARINE POLLUTANT (ALCOHOL C12-C14 POLY (1-6) ETHOXYLATE

## TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)

#### ORAL:

LD50 BELIEVED TO BE >2.00-5.00 G/KG (RAT) SLIGHTLY TOXIC

#### DERMAL:

LD50 BELIEVED TO BE >2.00 G/KG (RABBIT) PRACTICALLY NON-TOXIC

#### INHALATION:

NOT DETERMINED

#### IRRITATION INDEX, ESTIMATION OF IRRITATION (SPECIES)

#### EYES:

(DRAIZE) BELIEVED TO BE > 50.00- 80.00 /110 (RABBIT) SEVERELY IRRITATING

#### SKIN:

(DRAIZE) BELIEVED TO BE >25.00 – 50.00 /110 (RABBIT) MODERATELY IRRITATING

#### SENSITIZATION:

NOT DETERMINED.

#### OTHER:

THIS PRODUCT MAY CONTAIN RESIDUAL (LESS THAN 10 PPM) CONCENTRATIONS OF ETHYLENE OXIDE ETHYLENE OXIDE CAUSES TUMORS IN LABORATORY ANIMALS.

## SECTION XII - PRECAUTIONS: HANDLING, STORAGE AND USAGE

NO SPECIAL PRECAUTIONS NECESSARY. AVOID CONTAINER DAMAGE WHILE HANDLING AND STORING. STORE IN WELL-VENTILATED, COOL, DRY AREA. CLOSE CONTAINER WHEN NOT IN USE.

**The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Chemical Associates bears responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.**

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**DATE: 08/04/08  
SUPERSEDES: NEW**