



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

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: 800 - 347-2891
MSDS REFERENCE: CA7509

CHEMTREC: 800-424-9300

SECTION I - IDENTIFICATION

PRODUCT: CA7509 FATTY ALCOHOL C1214 + 9EO
SYNONYMS: ETHOXYLATED FATTY ALCOHOL
CHEMICAL: ALCOHOL C12-C14 POLY(9)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 @ 20C/70F
VAPOR DENSITY (AIR=1): NOT DETERMINED
SOLUBILITY IN WATER: <0.1 INSOLUBLE
APPEARANCE AND COLOR: LIQUID, CLEAR TO CLOUDY POUR POINT <22 DEG C

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

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|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| STABILITY: | GENERALLY STABLE |
| HAZARDOUS POLYMERIZATION: | NONE LIKELY |
| CONDITIONS AND MATERIALS TO AVOID: | KEEP AWAY FROM HEAT AND FLAMES. AVOID CONTACT WITH OXIDIZING MATERIALS. |
| HAZARDOUS DECOMPOSITION PRODUCTS: | 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.

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| SECTION XI - REGULATORY CONTROLS |
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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 THAT 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:

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

HAZARD CLASS:

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LABEL REQUIRED:

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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.

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