



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

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: 800-347-2891
MSDS REFERENCE: CA1726

CHEMTREC: 800-424-9300

SECTION I - IDENTIFICATION

PRODUCT: CA1726 LINOLEIC ACID
SYNONYMS: 9, 11 - OCTADECADIENOIC ACID
CHEMICAL: UNSATURATED ALIPHATIC CARBOXYLIC ACIDS
CAS NO: 60-33-3
SARA HAZARD: NONE NOTED (SECTION 311/312)
TITLE III (SECTION 313) NOT LISTED

SECTION II - INGREDIENTS AND HAZARD CLASSIFICATION

COMPOSITION	TYPICAL %	PEL/TLV	HAZARD
LINOLEIC ACID (60-33-3)	70	NONE / NONE	NONE NOTED
OLEIC ACID (112-80-1)	28	NONE / NONE	NONE NOTED
ROSIN (8050-09-7)	2	NONE / NONE	NONE NOTED

SECTION III - HEALTH INFORMATION

INHALATION: ADVERSE EFFECTS ARE NOT EXPECTED UNDER NORMAL CONDITIONS OF USE. HEATED PRODUCT MAY PRODUCE IRRITATING VAPORS.

INGESTION: NOT EXPECTED TO BE A ROUTE OF ENTRY. NO ADVERSE EFFECTS ARE EXPECTED FROM THE INGESTION OF SMALL AMOUNTS OF THIS PRODUCT.

EYE CONTACT: MAY CAUSE MILD TEMPORARY IRRITATION

SKIN CONTACT: PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE IRRITATION AND MAY CAUSE SENSITIZATION IN SUSCEPTIBLE INDIVIDUALS.

SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

PEL: NO OSHA PEL
TLV: NO ACGIH TLV

SECTION V - EMERGENCY FIRST AID PROCEDURE

- INGESTION:** DILUTE BY DRINKING 8 TO 16 OZ. OF WATER. DO NOT ATTEMPT TO GIVE LIQUIDS TO AN UNCONSCIOUS PERSON. DO NOT INDUCE VOMITING UNLESS INSTRUCTED TO DO SO BY A HEALTH CARE PROFESSIONAL. 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. ALSO SEEK MEDICAL ATTENTION IF COUGH OR OTHER SYMPTOMS DEVELOP LATER.
- EYE CONTACT:** IMMEDIATELY FLUSH EYES WITH PLENTY OF COOL WATER FOR AT LEAST 15 MINUTES. DO NOT LET VICTIM RUB EYES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.
- SKIN CONTACT:** PRACTICE GOOD INDUSTRIAL HYGIENE. WASH AFFECTED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. DISCARD SHOES IF PRODUCT CANNOT BE REMOVED BY WASHING. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

SECTION VI - PHYSICAL DATA

- BOILING POINT:** >660 F AT 760 MM Hg PRESSURE
MELTING POINT: -25 DEG C (APPROX.)
VAPOR PRESSURE: <1 MM Hg
SPECIFIC GRAVITY: 0.91 AT 25/15 DEG C
SOLUBILITY IN WATER: INSOLUBLE
APPEARANCE AND COLOR: YELLOW TO AMBER LIQUID WITH A FATTY ACID ODOR

SECTION VII - FIRE AND EXPLOSION HAZARDS

- FLASH POINT AND METHOD USED:** >300 F (150 DEG C) TAG CLOSED CUP
- FLAMMABLE LIMITS IN AIR, % BY VOL. LOWER:** NOT ESTABLISHED
FLAMMABLE LIMITS IN AIR, % BY VOL. UPPER: NOT ESTABLISHED
- NFPA RATING: HEALTH: (0) FIRE: (1) REACTIVITY: (0) (For Oleic Acid)**
HMIS RATING: HEALTH: (1) FIRE: (1) REACTIVITY: (0)

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

INDIVIDUALS SHOULD PERFORM ONLY THOSE FIRE PROCEDURES FOR WHICH THEY HAVE BEEN TRAINED. WATER OR FOAM MAY CAUSE FROTHING WHEN APPLIED TO FLAMMABLE LIQUIDS HAVING FLASH POINTS ABOVE 212 DEG F (100 DEG C). THE REMARK IS INCLUDED ONLY AS A PRECAUTION AND DOES NOT MEAN THAT WATER OR FOAM SHOULD NOT OR COULD NOT BE USED IN FIGHTING FIRES IN SUCH LIQUIDS. THE FROTHING MAY BE QUITE VIOLENT AND COULD ENDANGER THE LIFE OF THE FIREFIGHTER PARTICULARLY WHEN SOLID STREAMS ARE DIRECTED INTO THE HOT BURNING LIQUID. ON THE OTHER HAND, WATER SPRAY CAREFULLY APPLIED HAS FREQUENTLY BEEN USED WITH SUCCESS IN EXTINGUISHING SUCH FIRES BY CAUSING THE FROTHING TO OCCUR ONLY ON THE SURFACE AND THIS FOAMING ACTION BLANKETS THE

EXTINGUISHES THE FIRE. (NFPA 325M-1984)

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

STABILITY:	GENERALLY STABLE
HAZARDOUS POLYMERIZATION:	NONE LIKELY
CONDITIONS AND MATERIALS TO AVOID:	NONE KNOWN (SEE "WASTE DISPOSAL")
HAZARDOUS DECOMPOSITION PRODUCTS:	DECOMPOSITION MAY PRODUCE CARBON MONOXIDE AND CARBON DIOXIDE.

SECTION IX - EMPLOYEE PROTECTION

CONTROL MEASURES:

HANDLE IN THE PRESENCE OF ADEQUATE VENTILATION.

RESPIRATORY PROTECTION:

RECOMMENDED EXPOSURE LIMITS (I.E., OSHA-PEL AND ACGIH-TLV) HAVE NOT BEEN ESTABLISHED FOR THIS MATERIAL. WHETHER THERE IS A NEED FOR RESPIRATORY PROTECTION UNDER YOUR CONDITIONS OF HANDLING OF THIS MATERIAL SHOULD BE EVALUATED BY A QUALIFIED HEALTH SPECIALIST.

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 CONTAINER. WHERE NECESSARY COLLECT USING ABSORBENT MEDIA. IN THE 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. **CAUTION!** SPONTANEOUS COMBUSTION MAY OCCUR IN MATERIALS SOAKED WITH THIS PRODUCT AND EXPOSED TO AIR. THIS WOULD INCLUDE RAGS OR THE INSULATION OF VESSELS OR PIPING.

SECTION XI - REGULATORY CONTROLS

DEPARTMENT OF TRANSPORTATION:

DOT CLASSIFICATION: NOT REGULATED
DOT PROPER SHIPPING NAME:
OTHER DOT INFORMATION:

OTHER REGULATORY REQUIREMENTS:

LISTED IN TSCA INVENTORY

CERCLA HAZARDOUS MATERIALS:

NONE NOTED

SECTION XII - PRECAUTIONS: HANDLING, STORAGE AND USAGE

NO SPECIAL PRECAUTION NECESSARY.

KEEP IN CLOSED OR COVERED CONTAINER AND DO NOT STORE NEAR HEAT OR OPEN FLAMES TO PRESERVE THE COLOR AND ODOR CHARACTERISTICS OF THIS PRODUCT.

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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COPLEY, OHIO 44321-1683**

**DATE: 09/20/10
SUPERSEDES: 06/10/07**