

CHEMICAL ASSOCIATES OF ILLINOIS, INC. 1270 South Cleveland-Massillon Road, Building B. Copley, OH 44321-1614

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: (800) 347-2891

MSDS REFERENCE: CA1300 OLEIC ACID

CHEMTREC 800-424-9300

SECTION I - IDENTIFICATION

PRODUCT:

CA1300 - OLEIC ACID

SYNONYMS:

9 - OCTADECENOIC ACID

CHEMICAL:

UNSATURATED ALIPHATIC CARBOXYLIC ACID

CAS NO:

112-80-1

SARA HAZARD:

NONE NOTED (SECTION 311/312) TITLE III SECTION 313 - NOT LISTED

SECTION II - INGREDIENTS AND HAZARD CLASSIFICATION

COMPOSITION	%	PEL/TLV	HAZARD
OLEIC ACID (112-80-1)	73	NONE/NONE	NONE NOTED
LINOLEIC ACID (60-33-3)	8	NONEMONE	NONE NOTED
PALMITOLEIC ACID (2091-29-4)	6	NONE/NONE	NONE NOTED
MYRISTOLEIC ACID (544-64-9)	3	NONE/NONE	NONE NOTED
LINOLENIC ACID (463-40-1)	1	NONE/NONE	NONE NOTED
FATTY ACIDS (*)	9	NONEMONE	NONE NOTED

(*) C14-C17 SATURATED CARBOXYLIC ACIDS

SECTION III - HEALTH INFORMATION

INHALATION:

UNKNOWN

INGESTION: **EYE CONTACT:** LD50:>21.5 ML/KG (MALE ALBINO RATS)

THE MATERIAL PRODUCED MILD CONJUNCTIVITIS IN FIVE OF SIX RABBITS. NO OTHER IRRITATIVE SIGNS WERE OBSERVED AND ALL EXCEPT ONE RABBIT SHOWED NO IRRITATIVE SIGNS AT THE 72-HOUR

READING

SKIN CONTACT:

THE MATERIAL PRODUCED VERY SLIGHT ERYTHEMA IN SIX INTACT AND SIX ABRADED SITES ON ALBINO RABBITS AT THE 24-HOUR READING ONLY. NO EDEMA WAS OBSERVED AT EITHER READING. PRIMARY IRRITATION INDEX WAS CALCULATED TO BE 0.50. 15 MG OF OLEIC ACID INTERMITTENTLY APPLIED TO HUMAN SKIN OVER A 3-DAY PERIOD RESULTED IN MODERATE IRRITATION. 500 MG OF OLEIC ACID APPLIED TO RABBIT SKIN IN AN OPEN DRAIZE TEST RESULTED

IN MILD IRRITATION.

SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

PEL: TLV: NO OSHA PEL NO ACGIH TLV

SECTION V - EMERGENCY FIRST AID PROCEDURE

INGESTION: INHALATION: CALL A PHYSICIAN OR POISON CONTROL CENTER PROMPTLY. 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. GET

MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

WASH AFFECTED AREA

SECTION VI - PHYSICAL DATA

BOILING POINT:

547 DEG F (286 DEG C) AT 100 MM HG PRESSURE (APPROX)

MELTING POINT:

14 DEG C (APPROX)

VAPOR PRESSURE:

10 MM HG PRESSURE AT 224 DEG C

SPECIFIC GRAVITY:

0.891 AT 25/20 DEG C

SOLUBILITY IN WATER:

INSOLUBLE

APPEARANCE AND COLOR:

LIGHT YELLOW LIQUID WITH A FATTY ACID ODOR

SECTION VII - FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD USED:

364-372 DEG F (184-189 DEG C)CLOSED

AUTO-IGNITION TEMPERATURE:

CUP 685 DEG. F (363 DEG C)

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:

AVOID CONTACT WITH STRONG

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OXIDIZING AGENTS AND STRONG

ALKALIES.

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 287.1 WHERE NO CONTACT WITH THE EYE IS ANTICIPATED. CHEMICAL SAFETY GOGGLES MEETING THE SPECIFICATIONS OF ANSI STANDARD 287.1 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 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.

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 PRECAUTIONS NECESSARY. KEEP IN CLOSED CONTAINERS AND DO NOT STORE NEAR HEAT OR OPEN FLAMES TO PRESERVE THE COLOR AND ODOR CHARACTERISTICS OF THE 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 OF ILLINOIS, INC. BEARS RESPONSIBILITY. THE USER SHOULD REVIEW ANY RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE TO DETERMINE WHETHER THEY ARE APPROPRIATE.

CHEMICAL ASSOCIATES OF ILLINOIS, INC. 1270B SOUTH CLEVELAND-MASSILLON ROAD BUILDING B COPLEY, OHIO 44321-1614 (330) 666-5200

> DATE: 10/01/96 SUPERSEDES: 10/16/95