



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

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: 800-347-2891
MSDS REFERENCE: CA1920

CHEMTREC: 800-424-9300

SECTION I - IDENTIFICATION

PRODUCT: CA1920 TALLOW FATTY ACID
SYNONYMS:
CHEMICAL: CARBOXYLIC ACID
CAS NO: 61790-37-2 OR 67701-06-8
SARA HAZARD: NONE NOTED (SECTION 31 1/312)
TITLE III SECTION 313 NOT LISTED

SECTION II - INGREDIENTS AND HAZARD CLASSIFICATION

COMPOSITION	TYPICAL %	PEL/TLV	HAZARD
OLEIC ACID (112-80-1)	42	NONE/NONE	NONE NOTED
PALMITIC ACID (57-10-3)	25	NONE/NONE	NONE NOTED
STEARIC ACID (57-11-4)	18	NONE/NONE	NONE NOTED
PALMITOLEIC ACID (2091-29-4)	4	NONE/NONE	NONE NOTED
LINOLEIC ACID (60-33-3)	3	NONE/NONE	NONE NOTED
MYRISTIC ACID (544-63-8)	3	NONE/NONE	NONE NOTED
MARGARIC ACID (506-12-7)	2	NONE/NONE	NONE NOTED
LINOLENIC ACID (463-40-1)	1	NONE/NONE	NONE NOTED
OTHER FATTY ACIDS AT <1%	2	NONE/NONE	NONE NOTED

SECTION III - HEALTH INFORMATION

INHALATION: UNKNOWN

INGESTION: LD50:> G/KG (ALBINO RATS) (STEARIC AND PALMITIC ACIDS).
LD50:>21.5 ML/KG (MALE ALBINO RATS) (OLEIC ACID)

EYE CONTACT: STEARIC-PALMITIC MIXTURES PRODUCED ONLY MILD CONJUNCTIVAL ERYTHEMA IN TWO OF SIX RABBITS AT THE 24 AND 48-HOUR READINGS. NO OTHER SIGNS OF IRRITATION WERE OBSERVED. ALL SIGNS OF IRRITATION HAD SUBSIDED COMPLETELY AT THE 72-HOUR READING.

SKIN CONTACT: EXPOSURE TO STEARIC-PALMITIC ACID MIXTURES CAUSED NO SIGNS OF IRRITATION OR CORROSIVITY AT EITHER INTACT OR ABRADED SITES ON ALBINO RABBIT. EXPOSURE TO OLEIC ACID

RESULTED IN 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 OBSERVATION.

PRIMARY IRRITATION INDEX WAS 0.0 - 0.5.

75 MG OF STEARIC ACID APPLIED INTERMITTENTLY TO HUMAN SKIN OVER A 3 - DAY PERIOD RESULTED IN MILD IRRITATION. 500 MG OF STEARIC ACID APPLIED TO RABBIT SKIN OVER A 24-HOUR PERIOD RESULTED IN MODERATE IRRITATION. 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: NO OSHA PEL
TLV: NO ACGIH TLV

SECTION V - EMERGENCY FIRST AID PROCEDURE

INGESTION: NOT EXPECTED TO CAUSE GASTRO-INTESTINAL UPSET UNLESS A LARGE QUANTITY IS INGESTED. IF DISTRESS IS EXPERIENCED, 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. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT: PRACTICE GOOD INDUSTRIAL HYGIENE. WASH SKIN WITH SOAP AND WARM WATER. REMOVE CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE REUSE.

SECTION VI - PHYSICAL DATA

BOILING POINT: 360 DEG F (182 DEG C) AT 1 MM HG PRESSURE
MELTING POINT: 36 - 44 DEG C
VAPOR PRESSURE: APPROX. 1 MM HG PRESSURE AT 180 DEG C
SPECIFIC GRAVITY: 0.8622 AT 60/20 DEG C
SOLUBILITY IN WATER: NEGLIGIBLE
APPEARANCE AND COLOR: WAXY MATERIAL WITH A FATTY ACID ODOR

SECTION VII - FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD USED: 365 DEG F (185 DEG C) C.O.C.
FLAMMABLE LIMITS IN AIR, % BY VOL. LOWER: NOT ESTABLISHED
FLAMMABLE LIMITS IN AIR, % BY VOL. UPPER: NOT ESTABLISHED
NFPA RATING: NO NFPA RATING
HMIS RATING: HEALTH: (1) FIRE: (1) REACTIVITY: (0)

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

INDIVIDUALS SHOULD PERFORM ONLY THOSE FIRE FIGHTING 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 AND EXTINGUISHES THE FIRE.

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 OXIDIZING AGENTS.
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:

NO NEED ANTICIPATED.

EYE PROTECTION:

WEAR SAFETY GLASSES MEETING THE SPECIFICATIONS OF ANSI STANDARD Z87.1

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 COVERED OR CLOSED DRUMS OR STORAGE TANKS AWAY FROM FLAMES AND EXCESSIVE HEAT 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 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: 09/12/11
SUPERSEDES: 04/30/09