



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

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: 800-347-2891

CHEMTREC: 800-424-9300

MSDS REFERENCE: CA1535, CA1535K, CA1535FK

SECTION I - IDENTIFICATION

PRODUCT: CA1535 MYRISTIC ACID 97%
CA1535K MYRISTIC ACID 97% KOSHER
CA1535FK MYRISTIC ACID FOOD GRADE KOSHER

SYNONYMS: TETRADECANOIC ACID

CHEMICAL: SATURATED ALIPHATIC CARBOXYLIC ACID

CAS NO: 544-63-8

SARA HAZARD: NONE NOTED (SECTION 311/312)
TITLE III SECTION 313 NOT LISTED

SECTION II - INGREDIENTS AND HAZARD CLASSIFICATION

COMPOSITION	TYPICAL %	PEL/TLV	HAZARD
MYRISTIC ACID (544-63-8)	98+	NONE/NONE	NONE NOTED
PALMITIC ACID (57-10-3)	<1	NONE/NONE	NONE NOTED
LAURIC ACID (143-07-7)	<1	NONE/NONE	IRRITANT

SECTION III - HEALTH INFORMATION

INGESTION: LD50: >10 G/KG (MALE ALBINO RATS)

INHALATION: UNKNOWN

EYE CONTACT: MYRISTIC ACID WAS NOT CLASSIFIED AS AN EYE IRRITANT. SIGNS OF IRRITATION WERE CONFINED TO MILD CONJUNCTIVAL ERYTHEMA IN THREE OF SIX RABBITS (MYRISTIC ACID).

SKIN CONTACT: NO SIGNS OF IRRITATION WERE OBSERVED AT ANY SITE ON ALBINO RABBITS AT EITHER OBSERVATION INTERVAL. PRIMARY IRRITATION INDEX FOR MYRISTIC ACID WAS 0.

SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

PEL: NO OSHA PEL

TLV: NO ACGIH TLV

SECTION V - EMERGENCY FIRST AID PROCEDURE

- INGESTION:** DO NOT INDUCE VOMITING UNLESS OTHERWISE INSTRUCTED TO DO SO. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.
- INHALATION:** REMOVE VICTIM TO FRESH AIR. IF VICTIM HAS STOPPED BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY BY MOUTH TO MOUTH. GET MEDICAL ASSISTANCE 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 WITH SOAP AND WATER. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

SECTION VI - PHYSICAL DATA

- BOILING POINT:** APPROX. 377 DEG F (192 DEG C) AT 10 MM HG PRESSURE
- MELTING POINT:** 127 DEG F (53 DEG C)
- VAPOR PRESSURE:** 50 MM HG PRESSURE AT 230 DEG C
- SPECIFIC GRAVITY:** 0.89 AT 75/25 DEG C
- SOLUBILITY IN WATER:** INSOLUBLE (LESS THAN 0.1%)
- APPEARANCE AND COLOR:** WHITE, WAXY SOLID WITH FATTY ACID ODOR

SECTION VII - FIRE AND EXPLOSION HAZARDS

- FLASH POINT AND METHOD USED:** 405 DEG F (207 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: HEALTH: (1) FIRE: (1) REACTIVITY: (0) FOR STEARIC ACID**
- 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). THIS PRECAUTION DOES NOT MEAN THAT WATER OR FOAM COULD NOT OR SHOULD NOT BE USED IN FIRES IN SUCH LIQUIDS. THE FROTHING MAY BE VIOLENT AND COULD ENDANGER LIFE WHEN SOLID STREAMS ARE DIRECTED INTO THE BURNING LIQUID. WATER SPRAY, HOWEVER, 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 MAY EXTINGUISH 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 FACE PIECE WHEN THERE IS A POSSIBILITY OF EXPOSURE TO SMOKE, FUMES OR HAZARDOUS DECOMPOSITION PRODUCTS.

SECTION VIII - REACTIVITY

STABILITY:	GENERALLY STABLE
HAZARDOUS POLYMERIZATION:	NOT LIKELY
CONDITIONS AND MATERIALS TO AVOID:	AVOID HEAT AND OPEN FLAMES AND AVOID CONTACT WITH STRONG 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:
NO NEED ANTICIPATED UNDER NORMAL INDUSTRIAL USE.

EYE PROTECTION:
CHEMICAL SAFETY GOGGLES MEETING THE SPECIFICATIONS OF ANSI STANDARD Z87.1 SHOULD BE WORN WHENEVER THERE IS THE POSSIBILITY OF CONTACT WITH THE EYES. SPECTACLE TYPE SAFETY GLASSES DO NOT PROVIDE SATISFACTORY PROTECTION. AN EYEWASH FOUNTAIN SHOULD BE READILY ACCESSIBLE. WEAR PLASTIC FACE SHIELD IN ADDITION TO SAFETY GOGGLES WHERE THERE IS A DANGER OF SPLASHING.

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 THE 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

LISTED ON CANADIAN DSL

CERCLA HAZARDOUS MATERIALS:

NONE NOTED

SECTION XII - PRECAUTIONS: HANDLING, STORAGE AND USAGE

STORE IN COOL, DRY, WELL-VENTILATED AREA AWAY FROM SUNLIGHT. STORE ONLY IN APPROVED CONTAINER, UNDER APPROVED CONDITIONS. AN AUTOMATIC WATER SPRAY DEVICE SHOULD BE IMMEDIATELY AVAILABLE. SEGREGATE ACIDS FROM BASES. TREATMENT AGENTS FOR THE NEUTRALIZATION OF SPILLS SHOULD BE AVAILABLE AND A SPILL CONTROL AND CONTAINMENT PLAN SHOULD BE PROVIDED. STORAGE AREA SHOULD NOT BE SUBJECT TO RAPID TEMPERATURE CHANGES. SUCH CHANGES MAY CAUSE INCREASED INTERNAL PRESSURE, RAPID EXPANSION OR CONTRACTION OF METAL CONTAINERS RESULTING IN LEAKAGE. STRUCTURAL MATERIALS SHOULD BE RESISTANT TO CORROSION BY THE PRODUCT. ISOLATE FROM TOXIC MATERIAL; SUBSTANCES THAT MAY RELEASE CORROSIVE, TOXIC OR FLAMMABLE FUMES ON REACTION; ORGANIC MATERIALS; FLAMMABLE SUBSTANCES; STRUCTURAL MATERIALS SUBJECT TO CORROSION BY THIS PRODUCT. CONTAINER IS HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES, ALL HAZARD PRECAUTIONS DESCRIBED ON THIS MSDS MUST BE OBSERVED.

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: 10/29/09
SUPERSEDES: 12/30/05**