



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

## MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: 800-347-2891  
MSDS REFERENCE: CA1401

CHEMTREC: 800-424-9300

### SECTION I - IDENTIFICATION

**WARNING:** **MAY CAUSE SKIN AND EYE IRRITATION!**  
DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. AVOID BREATHING VAPOR. KEEP CONTAINER CLOSED. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.  
CA1401 - COCONUT FATTY ACID

**PRODUCT:**  
**SYNONYMS:**  
**CHEMICAL:** ALIPHATIC CARBOXYLIC ACIDS  
**CAS NO:** 61788-47-4  
**SARA HAZARD:** ACUTE (SECTION 311/312)  
TITLE III SECTION 313 NOT LISTED

### SECTION II - INGREDIENTS AND HAZARD CLASSIFICATION

COMPOSITION	TYPICAL %	PEL/TLV	HAZARD
LAURIC ACID (143-07-7)	49	NONE/NONE	IRRITANT
MYRISTIC ACID (544-63-8)	20	NONE/NONE	NONE NOTED
PALMITIC ACID (57-10-3)	8	NONE/NONE	NONE NOTED
DECANOIC ACID (CAPRIC) (334-48-5)	8	NONE/NONE	CORROSIVE
OLEIC ACID (112-80-1)	7	NONE/NONE	NONE NOTED
OCTANOIC ACID (CAPRYLIC) (124-07-2)	5	NONE/NONE	CORROSIVE
STEARIC ACID	2	NONE/NONE	NONE/NONE
LINOLEIC ACID	1	NONE/NONE	NONE/NONE

### SECTION III - HEALTH INFORMATION

**INHALATION:** THE MAXIMUM NO-EFFECT TIME FOR INHALATION OF CONCENTRATED OCTANOIC ACID VAPOR FOR RATS WAS FOUR HOURS. NO DEATHS TO RATS EXPOSED TO CONCENTRATED DECANOIC ACID VAPOR FOR EIGHT HOURS.

**INGESTION:** LD50: 18.5 G/KG (ALBINO RATS)

**EYE CONTACT:** A SIMILAR PRODUCT IS AN EYE IRRITANT ACCORDING TO FHSA CRITERIA, PRODUCING TRANSIENT CORNEAL OPACITY, IRITIS, OR

CONJUNCTIVAL EFFECTS IN 4 OUT OF 6 RABBITS (16 CFR 1500.42).

**SKIN CONTACT:** A SIMILAR PRODUCT PRODUCED MODERATE TO SEVERE (PURPLISH) ERYTHEMA, VERY SLIGHT TO MODERATE EDEMA, AND CORIACEOUSNESS IN 6 RABBITS TESTED ACCORDING TO FHSA CRITERIA; THE PRIMARY IRRITATION INDEX WAS 4.6 (16 CFR 1500.14).

#### SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

**PEL:** NO OSHA PEL  
**TLV:** NO ACGIH TLV

#### SECTION V - EMERGENCY FIRST AID PROCEDURE

**INGESTION:** 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:** IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER WHILE REMOVING CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE REUSE.

#### SECTION VI - PHYSICAL DATA

**BOILING POINT:** 320 DEG F (160 DEG C) AT 6 MM HG PRESSURE (APPROX.)  
**MELTING POINT:** 22-26 DEG C  
**VAPOR PRESSURE:** 100 MM HG PRESSURE AT 445 DEG F (APPROX.)  
**SPECIFIC GRAVITY:** 0.89 AT 75/25 DEG C  
**SOLUBILITY IN WATER:** INSOLUBLE  
**APPEARANCE AND COLOR:** LIGHT YELLOW, SEMI-SOLID. FATTY ACID ODOR.

#### SECTION VII - FIRE AND EXPLOSION HAZARDS

**FLASH POINT AND METHOD USED:** 315 DEG F (157 DEG C) COC  
**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: (2) FIRE: (1) REACTIVITY: (0)**

#### SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

INDIVIDUALS SHOULD PERFORM ONLY THOSE FIREFIGHTING 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. (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**

<b>STABILITY:</b>	GENERALLY STABLE
<b>HAZARDOUS POLYMERIZATION:</b>	NONE LIKELY
<b>CONDITIONS AND MATERIALS TO AVOID:</b>	AVOID CONTACT WITH STRONG OXIDIZING AGENTS AND STRONG ALKALIES.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	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 THAT 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 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 LAND FILLING 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  
CALIFORNIA PROPOSITION 65: NO COMPONENTS LISTED  
NEW JERSEY-RIGHT-TO-KNOW: NO COMPONENTS LISTED

**CERCLA HAZARDOUS MATERIALS:**

NONE NOTED

**SECTION XII - PRECAUTIONS: HANDLING, STORAGE AND USAGE**

CONTAINER IS HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES, ALL HAZARD PRECAUTIONS DESCRIBED ON THIS MSDS MUST BE OBSERVED. KEEP IN CLOSED OR COVERED CONTAINERS 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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**DATE: 09/16/10**  
**SUPERSEDES: 07/01/07**