



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

## MATERIAL SAFETY DATA SHEET

**EMERGENCY PHONE: 800-347-2891**  
**MSDS REFERENCE: CA1560, CA1560FG**

**CHEMTREC: 800-424-9300**

### SECTION I - IDENTIFICATION

**WARNING:** CAUSES SEVERE BURN TO SKIN AND EYES! DO NOT GET IN EYES, ON SKIN OR CLOTHING. AVOID BREATHING VAPOR. KEEP CONTAINER CLOSED. USE ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

**PRODUCT:** CA1560 CAPRYLIC ACID  
CA1560FG CAPRYLIC ACID FOOD GRADE

**SYNONYMS:** OCTANOIC ACID

**CHEMICAL:** CARBOXYLIC ACID

**CAS NO:** 124 - 07 - 2

**SARA HAZARD:** SECTION 311/312, ACUTE  
TITLE III SECTION 313 NOT LISTED

### SECTION II - INGREDIENTS AND HAZARD CLASSIFICATION

COMPOSITION	TYPICAL %	PEL/TLV	HAZARD
CAPRYLIC ACID (124-07-2)	99	NONE/NONE	CORROSIVE
CAPRIC ACID (334-48-5)	1	NONE/NONE	CORROSIVE

### SECTION III - HEALTH INFORMATION

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

**INGESTION:** LD50: 1.3 - 10.1 G/KG (RAT). FEEDING OF 1 - 5 % OCTANOIC ACID TO DOGS FOR UNSPECIFIED TIME CAUSED DIARRHEA.

**EYE CONTACT:** THE ACID CAUSED SEVERE CORNEAL INJURY WHEN APPLIED AS 5% SOLUTION (UNSPECIFIED VOLUME) TO RABBIT EYES.

**SKIN CONTACT:** LD50: 0.65->5.0 G/KG (RABBIT). HUMANS - RELATIVELY MILD IRRITATION TO SKIN AND MUCOUS MEMBRANES. A 1% PETROLATUM SOLUTION CAUSED NO IRRITATION AFTER 48 HOUR OCCLUDED PATCH TEST AND PRODUCED NO SENSITIZATION REACTIONS. THE ACID CAUSED SLIGHT NECROSIS WHEN 10 MG WAS APPLIED TO

RABBIT SKIN FOR 24 HOURS. IN A RECENT STUDY CAPRYLIC ACID WAS CLASSIFIED AS CORROSIVE ACCORDING TO 49 DOT, 173.240.

#### SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

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

#### SECTION V - EMERGENCY FIRST AID PROCEDURE

**INGESTION:** DO NOT INDUCE VOMITING. IF VICTIM IS CONSCIOUS AND ABLE TO SWALLOW, PROMPTLY HAVE VICTIM DRINK WATER TO DILUTE. DO NOT GIVE SODIUM BICARBONATE, FRUIT JUICES OR VINEGAR. NEVER GIVE ANYTHING BY MOUTH IF VICTIM IS UNCONSCIOUS OR HAVING CONVULSIONS. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

**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. GET MEDICAL ATTENTION IMMEDIATELY. WASH CONTAMINATED CLOTHING BEFORE REUSE.

#### SECTION VI - PHYSICAL DATA

**BOILING POINT:** 464 DEG F (240 DEG C) (APPROX. 212 DEG F AT 1.5 MM HG.)  
**MELTING POINT:** 60.8 DEG F (16 DEG C) (FOR OCTANOIC ACID)  
**VAPOR PRESSURE:** 1 MM HG PRESSURE AT 170.6 DEG F (78 DEG C)  
**SPECIFIC GRAVITY:** 0.910 (20/4) (H<sub>2</sub>O = 1)  
**SOLUBILITY IN WATER:** 0.25 % AT 100 DEG C  
**APPEARANCE AND COLOR:** A PRACTICALLY WATER-WHITE LIQUID WITH A PENETRATING SHORT-CHAIN FATTY ACID ODOR.

#### SECTION VII - FIRE AND EXPLOSION HAZARDS

**FLASH POINT AND METHOD USED:** 230 DEG F (110 DEG C) (CLOSED CUP) (OCTANOIC ACID)  
**NFPA RATING: HEALTH: (2) FIRE: (1) REACTIVITY: (0)** BASED ON HEXANOIC ACID  
**HMIS RATING: HEALTH: (3) FIRE: (1) REACTIVITY: (0)**

#### **SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:**

INDIVIDUALS SHOULD PERFORM ONLY THOSE FIRE FIGHTING PROCEDURES FOR WHICH THEY HAVE BEEN TRAINED. USE WATER SPRAY, DRY CHEMICAL. FOAM OR CARBON DIOXIDE. WATER MAY BE INEFFECTIVE BUT SHOULD BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL. IF A SPILL OR LEAK HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS. WATER SPRAY MAY BE USED TO FLUSH SPILLS AWAY FROM FIRE. WATER OR FOAM MAY CAUSE FROTHING WHEN APPLIED

ON FLAMMABLE LIQUIDS HAVING FLASH POINTS ABOVE 212 DEG. F. THIS PRECAUTION DOES NOT MEAN THAT WATER SHOULD NOT BE USED. FROTHING MAY BE VIOLENT AND ENDANGER LIFE WHEN SOLID STREAMS ARE DIRECTED INTO THE BURNING LIQUID. WATER SPRAY, CAREFULLY APPLIED, CAUSES FROTHING TO OCCUR ON THE SURFACE AND THIS 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**

<b>STABILITY:</b>	GENERALLY STABLE
<b>HAZARDOUS POLYMERIZATION:</b>	NOT LIKELY
<b>CONDITIONS AND MATERIALS TO AVOID:</b>	KEEP AWAY FROM HEAT AND FLAMES. AVOID CONTACT WITH OXIDIZING AGENTS AND BASIC CHEMICALS.
<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 WHICH ARE IMPERVIOUS TO THE PRODUCT FOR THE DURATION OF ANTICIPATED EXPOSURE IF THERE IS POTENTIAL FOR PROLONGED OR REPEATED SKIN CONTACT.

**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:** CLASS 8  
**DOT PROPER SHIPPING NAME:** CORROSIVE LIQUID, ACIDIC, ORGANIC  
**OTHER DOT INFORMATION:** (OCTANOIC ACID)  
UN3265, PG II, ERG#153

**OTHER REGULATORY REQUIREMENTS:**

LISTED IN TSCA INVENTORY  
LISTED IN CANADIAN DSL  
LISTED IN EUROPEAN EINECS  
LISTED IN PHILIPPINE PICCS  
LISTED IN JAPAN ENCS  
LISTED IN NEW ZEALAND NOCL  
LISTED IN AUSTRALIAN AICS  
LISTED IN KOREA KECI

**WHMIS (CANADA)**

STATUS: CONTROLLED  
HAZARD CLASSIFICATION: E (OCTANOIC ACID)

**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: 05/17/11  
SUPERSEDES: 10/29/09**