



CHEMICAL ASSOCIATES
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Building B
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MATERIAL SAFETY DATA SHEET

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MSDS REFERENCE: CA1580, CA1580FG, CA1580K

SECTION I - IDENTIFICATION

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

PRODUCT: CA1580 CAPRYLIC/CAPRIC
CA1580FG CAPRYLIC/CAPRIC ACID FOOD GRADE
CA1580K CAPRYLIC/CAPRIC ACID KOSHER

SYNONYMS: OCTANOIC - DECANOIC ACIDS

CHEMICAL: CARBOXYLIC ACID

CAS NO: 68937-75-7

SARA HAZARD: ACUTE (SECTION 311/312)
TITLE III SECTION 313 - NOT LISTED

SECTION II - INGREDIENTS AND HAZARD CLASSIFICATION

COMPOSITION	TYPICAL %	PEL/TLV	HAZARD
CAPRYLIC ACID (124-07-2)	55	NONE/NONE	CORROSIVE
CAPRIC ACID (334-48-5)	40	NONE/NONE	CORROSIVE
HEXANOIC ACID (142-62-1)	<4	NONE/NONE	CORROSIVE
LAURIC ACID (143-07-7)	<3	NONE/NONE	IRRITANT

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. LC50: 4.1 G/M3/2 HOURS (MOUSE) (HEXANOIC ACID).

INGESTION: LD50: 1.3-10.1 G/KG (RAT) (OCTANOIC ACID)
LD50: 3.3 G/KG (RAT) (MIXED ISOMERS OF DECANOIC ACID)

EYE CONTACT: BOTH OCTANOIC AND DECANOIC ACID PRODUCE SEVERE CORNEAL BURNS WHEN APPLIED AS A 5% SOLUTION (UNSPECIFIED VOLUME) TO RABBIT EYES.

SKIN CONTACT: LD50: 0.65->5.0 G/KG (RABBIT) (OCTANOIC ACID)
LD50: 1.6->5.0 G/KG (RABBIT) (DECANOIC ACID)
HUMANS - RELATIVELY MILD IRRITATION TO SKIN AND MUCOUS MEMBRANES. A 1% PETROLEUM SOLUTION CAUSED NO IRRITATION AFTER 48 HOURS OF OCCLUDED PATCH TEST AND PRODUCED NO SENSITIZATION REACTIONS. OCTANOIC ACID CAUSED SLIGHT NECROSIS WHEN 10 MG WAS APPLIED TO RABBIT SKIN FOR 24 HOURS.

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 OR OTHER NEUTRALIZING AGENTS UNLESS OTHERWISE INSTRUCTED. NEVER ATTEMPT TO GIVE ANYTHING BY MOUTH IF VICTIM IS UNCONSCIOUS OR HAVING CONVULSIONS. **OBTAIN MEDICAL ATTENTION PROMPTLY.**

INHALATION: A REACTION IS NOT EXPECTED AT AMBIENT TEMPERATURES BUT MAY BE EXPERIENCED IF EXPOSED TO A CONCENTRATION OF HEATED VAPORS. 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: QUICKLY REMOVE CONTAMINATED CLOTHING AND WASH CONTACTED SKIN WITH PLENTY OF WARM WATER AND SOAP. **SEEK MEDICAL ATTENTION IF ANY REDNESS OR OTHER REACTION IS NOTED.** WASH CONTAMINATED CLOTHING BEFORE REUSE. DISCARD CONTAMINATED SHOES.

SECTION VI - PHYSICAL DATA

BOILING POINT: APPROX. 450° F (232° C) AT 760 MM HG PRESSURE.
MELTING POINT: 42°F (TYPICAL)
VAPOR PRESSURE: 1 MM HG PRESSURE BETWEEN 78 AND 128 DEG C.
SPECIFIC GRAVITY: 0.870 AT 75 DEG C.
SOLUBILITY IN WATER: NEGLIGIBLE.
APPEARANCE AND COLOR: A PRACTICALLY WATER-WHITE LIQUID WITH A PENETRATING MUSTY, RANCID, FATTY ACID ODOR.

SECTION VII - FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD USED: 270 DEG F (COC)
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

STABILITY:	GENERALLY STABLE
HAZARDOUS POLYMERIZATION:	NOT LIKELY
CONDITIONS AND MATERIALS TO AVOID:	KEEP AWAY FROM HEAT AND FLAMES. AVOID CONTACT WITH OXIDIZING AGENTS AND BASIC CHEMICALS.
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:

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
PRODUCT IS LISTED ON CANADIAN DSL
COMPONENTS ARE LISTED ON CANADIAN DSL
PRODUCT IS NOT LISTED ON CANADIAN WHMIS

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: 11/22/06**