



CHEMICAL ASSOCIATES
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Building B
Copley, OH 44321-1614

MATERIAL SAFETY DATA SHEET

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MSDS REFERENCE: CA2045

SECTION I - IDENTIFICATION

PRODUCT: CA2045 TRIMER ACID 60
SYNONYMS: C₅₄ TRIBASIC ACID
CHEMICAL: CARBOXYLIC ACID
CAS NO: 68937-90-6
SARA HAZARD: NONE NOTED (SECTION 311/312)
TITLE III SECTION 313 NOT LISTED

SECTION II - INGREDIENTS AND HAZARD CLASSIFICATION

COMPOSITION	TYPICAL %	PEL/TLV	HAZARD
TRIMER ACID (68937-90-6) (C ₅₄ TRIBASIC ACID - MW APPROX. 845)	65	NONE/NONE	NONE NOTED
DIMER ACID (61788-89-4) (C ₃₆ DIBASIC ACID - MW APPROX. 565)	35	NONE/NONE	NONE NOTED

SECTION III - HEALTH INFORMATION

INGESTION: NOT EXPECTED TO BE A ROUTE OF ENTRY. CLASSIFIED AS "NON-TOXIC".

INHALATION: NO TOXIC EFFECTS KNOWN. MISTS OR VAPORS FROM HEATED MATERIAL MAY PRODUCE MILD RESPIRATORY TRACT IRRITATION.

EYE CONTACT: NOT CLASSIFIED AS AN EYE IRRITANT, HOWEVER REPEATED OR PROLONGED CONTACT MAY PRODUCE MILD IRRITATION.

SKIN CONTACT: MAY PRODUCE IRRITATION WITH REPEATED OR PROLONGED CONTACT AND IN SENSITIVE INDIVIDUALS.

EU SAFETY PHRASES NOT A DANGEROUS MATERIAL

SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

PEL: NO OSHA PEL
TLV: NO ACGIH TLV

SECTION V - EMERGENCY FIRST AID PROCEDURE

INGESTION: IF A LARGE AMOUNT (8OZ) IS INGESTED OR IF DISCOMFORT IS EXPERIENCED, GIVE TWO GLASS OF WATER TO DRINK AND CALL A PHYSICIAN OR POISON CONTROL CENTER PROMPTLY. DO NOT INDUCE VOMITING UNLESS OTHERWISE INSTRUCTED TO DO SO.

INHALATION: IMMEDIATELY REMOVE VICTIM TO FRESH AIR. IF VICTIM HAS STOPPED BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY BY MOUTH TO MOUTH AND SEEK MEDICAL ATTENTION IMMEDIATELY. ALSO CONSULT MEDICAL PERSONNEL IF RESPIRATORY IRRITATION DEVELOPS AFTER CASUAL VAPOR OR MIST CONTACT.

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF COOL WATER FOR AT LEAST 15 MINUTES. DO NOT LET VICTIM RUB EYES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS AFTER THE FLUSHING.

SKIN CONTACT: PRACTICE GOOD INDUSTRIAL HYGIENE. WASH THE AFFECTED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE.

SECTION VI - PHYSICAL DATA

BOILING POINT: >570 DEG F (>300 DEG C) AT 0.1 MM HG PRESSURE
MELTING POINT: VISCOUS LIQUID AT ROOM TEMPERATURE
VAPOR PRESSURE: <1 MM HG PRESSURE AT 20 DEG C
SPECIFIC GRAVITY: 0.96 AT 25/25 DEG C
SOLUBILITY IN WATER: NEGLIGIBLE
APPEARANCE AND COLOR: DARK BROWN/BLACK VISCOUS LIQUID

SECTION VII - FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD USED: 600 DEG F (315 DEG C) COC
FLAMMABLE LIMITS IN AIR, % BY VOL. LOWER: NOT DETERMINED
FLAMMABLE LIMITS IN AIR, % BY VOL. UPPER: NOT DETERMINED
NFPA RATING: HEALTH: (1) FIRE: (1) REACTIVITY: (0) FOR OLEIC ACID
HMIS RATING: HEALTH: (1) FIRE: (1) REACTIVITY: (0)

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

INDIVIDUALS SHOULD PERFORM ONLY THOSE FIRE 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 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:

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:

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.

REGULATIONS AND IN CONFORMANCE WITH GOOD ENGINEERING PRACTICES. AVOID LANDFILLING OF LIQUIDS. RECLAIM WHERE POSSIBLE.

SECTION XI - REGULATORY CONTROLS

TRANSPORTATION:

DOT CLASSIFICATION:	NOT REGULATED
IMDG:	NOT REGULATED
IATA:	NOT REGULATED

OTHER REGULATORY REQUIREMENTS:

LISTED IN TSCA INVENTORY
LISTED IN THE CANADIAN DSL
CANADIAN WHMIS NOT CONTROLLED
LISTED IN THE JAPAN INVENTORY
LISTED IN THE AUSTRALIA INVENTORY
LISTED IN THE KOREA INVENTORY
LISTED IN THE CHINA INVENTORY
LISTED IN THE PHILIPPINE INVENTORY
LISTED IN THE NEW ZEALAND INVENTORY

CERCLA HAZARDOUS MATERIALS:

NONE NOTED

SECTION XII - PRECAUTIONS: HANDLING, STORAGE AND USAGE

NO SPECIAL PRECAUTIONS NECESSARY.

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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SUPERSEDES: 10/13/09