



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

## MATERIAL SAFETY DATA SHEET

**EMERGENCY PHONE: 800-347-2891**  
**MSDS REFERENCE: CA2043**

**CHEMTREC: 800-424-9300**

### SECTION I - IDENTIFICATION

**PRODUCT:** CA2043 TRIMER ACID  
**SYNONYMS:** C<sub>54</sub> 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 <sub>54</sub> TRIBASIC ACID - MW APPROX. 845)	75	NONE/NONE	NONE NOTED
DIMER ACID (61788-89-4) (C <sub>36</sub> DIBASIC ACID - MW APPROX. 565)	25	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.

### SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

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

## SECTION V - EMERGENCY FIRST AID PROCEDURE

- INGESTION:** NOT EXPECTED TO BE A ROUTE OF ENTRY. 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:** >500 DEG F (>260 DEG C) AT 760 MM HG PRESSURE  
**MELTING POINT:** LIQUID AT ROOM TEMPERATURE  
**VAPOR PRESSURE:** <1 MM HG PRESSURE AT 20 DEG C  
**SPECIFIC GRAVITY:** 0.96 AT 25/20 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:** 608 DEG F (320 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

<b>STABILITY:</b>	GENERALLY STABLE
<b>HAZARDOUS POLYMERIZATION:</b>	NONE LIKELY
<b>CONDITIONS AND MATERIALS TO AVOID:</b>	AVOID CONTACT WITH STRONG OXIDIZING AGENTS
<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:**

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 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 THE CANADIAN DSL

**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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**DATE: 10/29/09  
SUPERSEDES: 04/24/03**