



# MATERIAL SAFETY DATA SHEET

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MSDS No. AA 90  
Effective Date January 18, 1999

## SECTION V HEALTH HAZARD DATA

AA 90

**Threshold Limited Value** Not established. (ACGIH 1992-93).

**Effects of Overexposure**  
**INHALATION:** Low hazard in normal handling. May cause irritation as nuisance dust. **SKIN:** Low hazard in normal handling. May cause irritation. **EYES:** No specific hazard known. Contact may cause transient irritation. **INGESTION:** Expected to be a low ingestion hazard. Exercise appropriate procedures to minimize potential hazards.

**Emergency and First Aid Procedures**  
**INHALATION:** Remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **SKIN:** Flush with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. If irritation develops, get medical attention. **INGESTION:** If swallowed, if conscious, give water to drink. Get medical attention if needed. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Excessive temperature and heat.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Strong oxidizers, strong alkalis.

**Hazardous Decomposition Products** Combustion will produce carbon dioxide, carbon monoxide and nitrous oxide.

<b>Hazardous Polymerization</b>		<b>Conditions to Avoid</b>	Not applicable.
<b>May Occur</b>	<b>Will Not Occur</b>		
	X		

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Recover for use if not contaminated. Sweep up material and place in a suitable container for proper disposal. Wash spill area with a soap and water solution.

**Waste Disposal Method** Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dispose of in accordance with federal, state and local regulations.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.

<b>Ventilation</b>	<b>Local Exhaust</b>	<b>Recommended.</b>	<b>Special</b>	<b>No.</b>
	<b>Mechanical (General)</b>	<b>Recommended.</b>	<b>Other</b>	<b>No.</b>

**Protective Gloves** Rubber. **Eye Protection** Chemical Safety Glasses.

**Other Protective Equipment** Goggles, lab coat, eye wash station, ventilation hood.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry place away from oxidizing materials. Keep container tightly closed when not in use.

**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals.

Avoid contact with skin or eyes. Use with adequate ventilation. Wash thoroughly after handling. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

<b>Revision</b> No. 5	<b>Date</b> 1/18/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> MR
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## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	DL-alpha-ALANINE	 <b>CHEMTREC</b> <b>800-424-9300</b> Day 716-226-6177 <b>NFPA HAZARD RATING</b> LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 <b>HMIS *</b>	<b>Health</b>	1
<b>Chemical Synonyms</b>	2-Aminopropionic Acid		<b>Fire</b>	1
<b>Formula</b>	C <sub>3</sub> H <sub>7</sub> NO <sub>2</sub>		<b>Reactivity</b>	0
<b>Unit Size</b>	up to 2.5 Kg.			
<b>C.A.S. No.</b>	302-72-7			

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
DL-alpha-Alanine	100%	None established.
<b>CAUTION! MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. MAY CAUSE IRRITATION.</b>		

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	295°C (401°F) dec.	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	1.424 at 20°C
<b>Boiling Point (°F)</b>	Decomposes.	<b>Percent Volatile by Volume (%)</b>	N/A
<b>Vapor Pressure (mm Hg)</b>	Negligible as solid.	<b>Evaporation Rate (n-Butyl Ac. =1)</b>	N/A
<b>Vapor Density (Air=1)</b>	3.0		
<b>Solubility in Water</b>	Appreciable.		
<b>Appearance &amp; Odor</b>	White crystalline powder; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-flammable.	<b>Flammable Limits in Air % by Volume</b>	N/A	<b>Lower</b>	<b>Upper</b>
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**Extinguisher Media** Water spray; dry chemical; carbon dioxide.

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products. May be a slight fire hazard, when exposed to heat or flame; can react vigorously with oxidizing materials.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20