

DATE: 03/26/98 ACCT: 742982001  
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\*\*\*\* MATERIAL SAFETY DATA SHEET \*\*\*\*

d-Phenylalanine, 99+%  
14598

\*\*\*\* SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION \*\*\*\*

MSDS Name: d-Phenylalanine, 99+%  
Catalog Numbers:  
AC172040000, AC172040250  
Synonyms:  
(R)-2-Amino-3-phenylpropionic acid  
Company Identification: Acros Organics N.Y.  
One Reagent Lane  
Fairawn, NJ 07410

For information in North America, call: 800-ACROS-01  
For emergencies in the US, call CHEMTREC: 800-424-9300

\*\*\*\* SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS \*\*\*\*

CAS#	Chemical Name	%	EINECS#
673-06-3	D-Phenylalanine	99+%	211-603-5

\*\*\*\* SECTION 3 - HAZARDS IDENTIFICATION \*\*\*\*

EMERGENCY OVERVIEW

Appearance: white.  
Caution: The toxicological properties of this material have not been fully investigated. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.  
Target Organs: None known.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: None

\*\*\*\* SECTION 4 - FIRST AID MEASURES \*\*\*\*

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid.

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion: If victim is conscious and alert, give 2-4 cups of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure to fresh air immediately. Get medical aid if cough or other symptoms appear.

Notes: Physically and supportively.

\*\*\*\* SECTION 5 - FIRE FIGHTING MEASURES \*\*\*\*

General Information:  
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media:  
In case of fire use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature: Not available.  
Flash Point: Not available.  
NFPA Rating: No published.  
Explosion Limits: Upper: Not available.  
Lower: Not available.

\*\*\*\* SECTION 6 - ACCIDENTAL RELEASE MEASURES \*\*\*\*

General Information: Use proper personal protective equipment as indicated in Section 8.

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Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions.

\*\*\*\* SECTION 7 - HANDLING AND STORAGE \*\*\*\*

Handling:  
Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:  
Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

\*\*\*\* SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION \*\*\*\*

Engineering Controls:  
Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
D-Phenylalanine	none listed	none listed	none listed

OSHA Vacated PELs:

D-Phenylalanine:  
No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:  
Follow the OSHA respirator regulations found in 29CFR 1910.134. Always use a NIOSH-approved respirator when necessary.

\*\*\*\* SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES \*\*\*\*

Physical State: Solid  
Appearance: white  
Color: white  
pH: Not available.  
Vapor Pressure: Not available.  
Vapor Density: Not available.  
Evaporation Rate: Not available.  
Viscosity: Not available.  
Boiling Point: @ 760.00mm Hg C  
Freezing/Melting Point: 273 - 276 deg C  
Decomposition Temperature: 196 deg C  
Solubility: IN WATER: 27 G/L (208C)  
Specific Gravity/Density: Not available.  
Molecular Formula: C9H11NO2  
Molecular Weight: 165.19

\*\*\*\* SECTION 10 - STABILITY AND REACTIVITY \*\*\*\*

Chemical Stability:  
Stable under normal temperatures and pressures.  
Conditions to Avoid:  
Incompatible materials:  
Incompatibilities with Other Materials:  
Strong oxidizing agents, acids, bases.  
Hazardous Decomposition Products:  
Nitrogen oxides, carbon monoxide, carbon dioxide.  
Hazardous Polymerization: Will not occur.

\*\*\*\* SECTION 11 - TOXICOLOGICAL INFORMATION \*\*\*\*

RTCS#:  
CAS# 673-06-3, AY7533900  
LD50/LC50:  
Not available.  
Carcinogenicity:  
D-Phenylalanine  
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

\*\*\*\* SECTION 12 - ECOLOGICAL INFORMATION \*\*\*\*

Ecotoxicity:  
Not available.

\*\*\*\* SECTION 13 - DISPOSAL CONSIDERATIONS \*\*\*\*

Dispose of in a manner consistent with federal, state, and local regulations.  
RCRA D-Series Maximum Concentration of Contaminants:  
RCRA D-Series Chronic Toxicity Reference Levels: None listed  
RCRA F-Series: None listed.  
RCRA P-Series: None listed.  
RCRA U-Series: None listed.  
Not listed as a material banned from land disposal according to RCRA.

\*\*\*\* SECTION 14 - TRANSPORT INFORMATION \*\*\*\*

US DOT

IMO No information available

IATA Not regulated as a hazardous material.

RID/ADR Not regulated as a hazardous material.

Canadian TDG Not regulated as a hazardous material.

No information available.

\*\*\*\* SECTION 15 - REGULATORY INFORMATION \*\*\*\*

US FEDERAL

TSCA

CAS# 673-06-3 is listed on the TSCA inventory.

Health & Safety Reporting List

Chemical Test Rules

Section 12b. None of the chemicals in this product are listed under a Chemical Test Rule.

Section 12b. None of the chemicals in this product are listed under a Chemical Test Rule.

SARA None of the chemicals in this material have a SNUR under TSCA.

Section 302 (RQ) None of the chemicals in this material have an RQ.

Section 302 (TPQ) None of the chemicals in this product have a TPQ.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act: This material does not contain any hazardous air pollutants.

Clean Water Act: This material does not contain any Class 2 Ozone depleters.

Substances under the CWA. None of the chemicals in this product are listed as Hazardous

Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

D-Phenylalanine is not present on state lists from CA, PA, MN, MA, FL or NJ. No Significant Risk Level:

California: None of the chemicals in this product are listed.

European/International Regulations

Hazard Symbols: Not available.

Risk Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 673-06-3: 0

Canada

None of the chemicals in this product are listed on the DSL/NDL list.

WHMIS: Not available.

CAS# 673-06-3 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

\*\*\*\* SECTION 16 - ADDITIONAL INFORMATION \*\*\*\*

MSDS Creation Date: 3/01/1994 Revision #2 Date: 9/02/1997

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to

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