

Material Safety Data Sheet

L(+)-Glutamine

MSDS# 00808

Section 1 - Chemical Product and Company Identification

MSDS Name: L(+)-Glutamine

Catalog Numbers: AC119950000, AC119950025, AC119951000, AC119955000, AC386030000

Synonyms: L(+)-Glutamic acid-5-amide

Acros Organics BVBA Company Identification:

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

Acros Organics

800-ACROS-01

+32 14 57 52 11

+32 14 57 52 99

One Reagent Lane Company Identification: (USA)

Fair Lawn, NJ 07410

For information in the US, call: For information in Europe, call: Emergency Number, Europe:

Emergency Number US: 201-796-7100 CHEMTREC Phone Number, US: 800-424-9300 CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#: 56-85-9

Chemical Name: L(+)-Glutamine

%:

EINECS#: 200-292-1

Hazard Symbols: ΧI



Risk Phrases: 36/37/38

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Not available Target Organs: Respiratory system, eyes, skin.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. May be harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. Expected to be a low ingestion hazard.

Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.

Chronic:

Section 4 - First Aid Measures

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

medical aid.

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated

Skin:

clothing and shoes.

Ingestion: Get medical aid. Wash mouth out with water.

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If Inhalation:

breathing is difficult, give oxygen. Get medical aid.

Notes to

Treat symptomatically and supportively. Physician:

Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH General Information:

(approved or equivalent), and full protective gear.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature: Not available

Flash Point: Not available

Explosion Limits: Not available Lower:

Explosion Limits: Not available Upper:

NFPA Rating: Not published

Section 6 - Accidental Release Measures

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

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

Section 7 - Handling and Storage

Avoid breathing dust, mist, or vapor. Avoid contact with skin and eyes. Handling:

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	+ NIOSH	++ OSHA - Final PELs
L(+)-Glutamine	none listed	none listed	none listed

OSHA Vacated PELs: L(+)-Glutamine: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes: Not available

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a

Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if

irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Color: white

Odor: practically odorless

pH: 4.0-6.0 (2.5% aq.solution)

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available

Boiling Point: Not available

Freezing/Melting Point: 185 deg C(decom)

Decomposition Temperature:

Solubility in water: 35 g/l (20°C)

Specific Gravity/Density:

Molecular Formula: C5H10N2O3

Molecular Weight: 146.15

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials.

Incompatibilities with Other Materials Not available

Hazardous Decomposition Products Nitrogen oxides, carbon monoxide, carbon dioxide, ammonia.

Hazardous Polymerization Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 56-85-9: MA2275100

RTECS:

LD50/LC50: CAS# 56-85-9: Oral, mouse: LD50 = 21700 mg/kg;

Oral, rat: LD50 = 7500 mg/kg;

Carcinogenicity: L(+)-Glutamine - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information. The toxicological properties have not been fully

investigated.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Hazard Class: UN Number: Packing Group: Canada TDG

Shipping Name: Not available

Hazard Class: UN Number: Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 56-85-9: 0

Canada

CAS# 56-85-9 is listed on Canada's DSL List

Canadian WHMIS Classifications: D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 56-85-9 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 56-85-9 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 12/15/1997 Revision #4 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
