



SAFETY DATA SHEET

L-GLUTAMINE

1. PRODUCT IDENTIFICATION AND COMPANY INFORMATION

PRODUCT NAME: L-GLUTAMINE
COMPANY NAME: XINJIANG FUFENG BIOTECHNOLOGIES CO.,LTD
ADDRESS:GANQUANPU INDUSTRIAL PARK, ECONOMIC AND
TECHNOLOGICALDEVELOPMENT AREA (TOUTUNHE DISTRICT) OF URUMQI,
XINJIANG, P.R. CHINA
TEL.:+86-0539 7287111
E-MAIL:aminoacids@fufeng-group.com
FAX:+86-0539 7260277
USAGE: FOOD ADDITIVE

2.HAZARD(S) IDENTIFICATION

POTENTIAL ACUTE HEALTH EFFECTS: HAZARDOUS IN CASE OF INGESTION.
SLIGHTLY HAZARDOUS IN CASE OF EYE CONTACT (IRRITANT), OF INHALATION.
POTENTIAL CHRONIC HEALTH EFFECTS:HAZARDOUS IN CASE OF INGESTION.
SLIGHTLY HAZARDOUS IN CASE OF EYE CONTACT (IRRITANT), OF INHALATION.
CARCINOGENIC EFFECTS: NOT AVAILABLE.
MUTAGENIC EFFECTS: NOT AVAILABLE.
TERATOGENIC EFFECTS: NOT AVAILABLE.
DEVELOPMENTAL TOXICITY: NOT AVAILABLE.
THE SUBSTANCE IS TOXIC TO LUNGS, MUCOUS MEMBRANES.
REPEATED OR PROLONGED EXPOSURE TO THE SUBSTANCE CAN PRODUCE
TARGET ORGANS DAMAGE.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

NAME	CAS #	% BY WEIGHT
L-GLUTAMINE	56-85-9	100

TOXICOLOGICAL DATA ON INGREDIENTS: L-GLUTAMINE: ORAL (LD50): ACUTE:
7500 MG/KG [RAT]. 21700 MG/KG [MOUSE].

4.FIRST AID MEASURES

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT
LEAST 15 MINUTES, KEEPING EYELIDS OPEN. COLD WATER MAY BE USED.

SKIN CONTACT: NO KNOWN EFFECT ON SKIN CONTACT, RINSE WITH WATER FOR
A FEW MINUTES.

SERIOUS SKIN CONTACT: NOT AVAILABLE.

INHALATION: ALLOW THE VICTIM TO REST IN A WELL VENTILATED AREA. SEEK
IMMEDIATE MEDICAL ATTENTION.

SERIOUS INHALATION: NOT AVAILABLE.

INGESTION: DO NOT INDUCE VOMITING. LOOSEN TIGHT CLOTHING SUCH AS A
COLLAR, TIE, BELT OR WAISTBAND. IF THE VICTIM IS NOT BREATHING, PERFORM
MOUTH-TO-MOUTH RESUSCITATION. SEEK IMMEDIATE MEDICAL ATTENTION.



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SERIOUS INGESTION: NOT AVAILABLE.

5. FIRE-FIGHTING MEASURES

FLAMMABILITY OF THE PRODUCT: MAYBE COMBUSTIBLE AT VERY HIGH TEMPERATURE

AUTO-IGNITION TEMPERATURE: NOT AVAILABLE

FLASH POINT: NOT AVAILABLE

FLAMMABLE LIMITS: NOT AVAILABLE

PRODUCT OF COMBUSTION: THE PRODUCTS ARE CARBON OXIDES(CO,CO₂), NITROGEN OXIDES(NO,NO₂).

FIRE HAZARDS WITH PRESENCE OF OTHER SUBSTANCE: NOT AVAILABLE.

EXPLOSION WITH PRESENCE OF OTHER SUBSTANCE: NOT AVAILABLE.

RISK OF EXPLOSION OF THE PRODUCTS IN THE PRESENCE OF MECHANICAL IMPACT; NOT AVAILABLE

RISK OF EXPLOSION OF THE PRODUCTS IN THE PRESENCE OF STATIC DISCHARGE; NOT AVAILABLE.

FIRE FIGHTING MEDIA AND INSTRUCTION:

SMALL FIRE: WITH DRY CHEMICAL POWDER.

HEAVY FIRE: WITH WATER SPRAY .FOG,FOAM. NOT WITH WATER JET.

SPECIAL REMARKS ON FIRE HAZARDS; NOT AVAILABLE.

SPECIAL REMARKS ON EXPLOSION HAZARDS: NOT AVAILABLE.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

USE APPROPRIATE TOOLS TO PUT THE SPILLED SOLID IN A CONVENIENT WASTE DISPOSAL CONTAINER. FINISH CLEANING BY SPREADING WATER ON THE CONTAMINATED SURFACE AND DISPOSE OF ACCORDING TO LOCAL AND REGIONAL AUTHORITY REQUIREMENTS.

LARGE SPILL:

USE A SHOVEL TO PUT THE MATERIAL INTO A CONVENIENT WASTE DISPOSAL CONTAINER. FINISH CLEANING BY SPREADING WATER ON THE CONTAMINATED SURFACE AND ALLOW TO EVACUATE THROUGH THE SANITARY SYSTEM.

7. HANDLING AND STORAGE

PRECAUTIONS:

KEEP AWAY FROM HEAT. KEEP AWAY FROM SOURCES OF IGNITION. EMPTY CONTAINERS POSE A FIRE RISK, EVAPORATE THE RESIDUE UNDER A FUME HOOD. GROUND ALL EQUIPMENT CONTAINING MATERIAL. DO NOT INGEST. DO NOT BREATHE DUST. IF INGESTED, SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THE CONTAINER OR THE LABEL.

STORAGE:

KEEP CONTAINER DRY. KEEP IN A COOL PLACE. GROUND ALL EQUIPMENT CONTAINING MATERIAL. KEEP CONTAINER TIGHTLY CLOSED. KEEP IN A COOL, WELL-VENTILATED PLACE. COMBUSTIBLE MATERIALS SHOULD BE STORED



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AWAY FROM EXTREME HEAT AND AWAY FROM STRONG OXIDIZING AGENTS.

8. EXPOSURE CONTROLS /PERSONAL PROTECTION

ENGINEERING CONTROLS:

USING PROCESS ENCLOSURE.LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO KEEP AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

IF USER OPERATIONS GENERATE DUST,FUME OR MIST,USE VENTILATION TO KEEP EXPOSURE TO AIRBORNE CONTAMINANTS BELOW THE EXPOSURE LIMIT.

PERSONAL PROTECTION: WITH PROTECFUL GLASSES LAB COATS.

PERSONAL PROTECTION WITH LARGE SPILL.:SAFETY GLASSES PROTECT LAB COAT BOOTS PROTECT GLOVES AND OTHER SPECIAL LAB FACILITIS TO BE AN SPECIALIST.

IF THE FOLLOWING THINGS HAPPENED,YOU CAN TAKE THE FOLLOWING MEASURES:

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES, KEEPING EYELIDS OPEN. COLD WATER MAY BE USED.

SKIN CONTACT: NO KNOWN EFFECT ON SKIN CONTACT, RINSE WITH WATER FOR A FEW MINUTES.

SERIOUS SKIN CONTACT: NOT AVAILABLE.

INHALATION: ALLOW THE VICTIM TO REST IN A WELL VENTILATED AREA. SEEK IMMEDIATE MEDICAL ATTENTION.

SERIOUS INHALATION: NOT AVAILABLE.

INGESTION: DO NOT INDUCE VOMITING. LOOSEN TIGHT CLOTHING SUCH AS A COLLAR, TIE, BELT OR WAISTBAND. IF THE VICTIM IS NOT BREATHING, PERFORM MOUTH-TO-MOUTH RESUSCITATION. SEEK IMMEDIATE MEDICAL ATTENTION.

SERIOUS INGESTION: NOT AVAILABLE.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE AND APPEARANCE: SOLID. (SOLID CRYSTALLINE POWDER.)

ODOR: NOT AVAILABLE.

TASTE: NOT AVAILABLE.

MOLECULAR WEIGHT: 146.15 G/MOLE

COLOR: WHITE.

PH (1% SOLN/WATER): 7 [NEUTRAL.]

BOILING POINT: NOT AVAILABLE.

MELTING POINT: DECOMPOSES. (185°C OR 365°F)

CRITICAL TEMPERATURE: NOT AVAILABLE.

SPECIFIC GRAVITY: NOT AVAILABLE.

VAPOR PRESSURE: NOT APPLICABLE.

VAPOR DENSITY: NOT AVAILABLE.

VOLATILITY: NOT AVAILABLE.

ODOR THRESHOLD: NOT AVAILABLE.

WATER/OIL DIST. COEFF.: NOT AVAILABLE.



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IONICITY (IN WATER): NOT AVAILABLE.

DISPERSION PROPERTIES: SEE SOLUBILITY IN WATER.

SOLUBILITY: SOLUBLE IN COLD WATER.

10. STABILITY AND REACTIVITY DATA

STABILITY: THE PRODUCT IS STABLE.

INSTABILITY TEMPERATURE: NOT AVAILABLE.

CONDITIONS OF INSTABILITY: NOT AVAILABLE.

INCOMPATIBILITY WITH VARIOUS SUBSTANCES: NOT AVAILABLE.

CORROSIVITY: NOT AVAILABLE.

SPECIAL REMARKS ON REACTIVITY: NOT AVAILABLE.

SPECIAL REMARKS ON CORROSIVITY: NOT AVAILABLE.

POLYMERIZATION: NO.

11. TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY: INGESTION.

TOXICITY TO ANIMALS: ACUTE ORAL TOXICITY (LD50): 7500 MG/KG [RAT].

CHRONIC EFFECTS ON HUMANS: THE SUBSTANCE IS TOXIC TO LUNGS, MUCOUS MEMBRANES.

OTHER TOXIC EFFECTS ON HUMANS:

HAZARDOUS IN CASE OF INGESTION. SLIGHTLY HAZARDOUS IN CASE OF INHALATION.

SPECIAL REMARKS ON TOXICITY TO ANIMALS: NOT AVAILABLE.

SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS: PASSES THROUGH THE PLACENTAL BARRIER IN ANIMAL.

SPECIAL REMARKS ON OTHER TOXIC EFFECTS ON HUMANS: NUISANCE DUST.

12. ECOLOGICAL INFORMATION

ECOTOXICITY: NOT AVAILABLE.

BOD5 AND COD: NOT AVAILABLE.

PRODUCTS OF BIODEGRADATION:

POSSIBLY HAZARDOUS SHORT TERM DEGRADATION PRODUCTS ARE NOT LIKELY. HOWEVER, LONG TERM DEGRADATION PRODUCTS MAY ARISE.

TOXICITY OF THE PRODUCTS OF BIODEGRADATION: THE PRODUCTS OF DEGRADATION ARE MORE TOXIC.

SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION: NOT AVAILABLE.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

CHEMICAL WASTE GENERATORS MUST DETERMINE WHETHER A DISCARDED CHEMICAL IS CLASSIFIED AS A HAZARDOUS WASTE. ADDITIONALLY, WASTE GENERATORS MUST CONSULT STATE AND LOCAL HAZARDOUS WASTE REGULATIONS TO ENSURE COMPLETE AND ACCURATE CLASSIFICATION.

14. TRANSPORT INFORMATION

IMO/IMDG TRANSPORT INFORMATION: NOT BELONG TO

DOT CLASSIFICATION: NOT A DOT CONTROLLED MATERIAL (UNITED STATES).

IDENTIFICATION: NOT APPLICABLE.

SPECIAL PROVISIONS FOR TRANSPORT: NOT APPLICABLE.



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15. OTHER REGULATORY INFORMATION

FEDERAL AND STATE REGULATIONS: TSCA 8(B) INVENTORY: L-GLUTAMINE

OTHER REGULATIONS: OSHA: HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

OTHER CLASSIFICATIONS:

WHMIS (CANADA): CLASS D-2A: MATERIAL CAUSING OTHER TOXIC EFFECTS (VERY TOXIC).

DSCL (EEC):

THIS PRODUCT IS NOT CLASSIFIED ACCORDING TO THE EU REGULATIONS.

HMIS (U.S.A.):

HEALTH HAZARD: 1

FIRE HAZARD: 1

REACTIVITY: 0

PERSONAL PROTECTION: A

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

HEALTH: 1

FLAMMABILITY: 1

REACTIVITY: 0

SPECIFIC HAZARD:

PROTECTIVE EQUIPMENT:

NOT APPLICABLE. LAB COAT. WEAR APPROPRIATE RESPIRATOR WHEN VENTILATION IS INADEQUATE. SAFETY GLASSES.

16. OTHER INFORMATION

REFERENCES: NOT AVAILABLE

OTHER SPECIAL CONSIDERATIONS: NOT AVAILABLE

THE INFORMATION ABOVE IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US.

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