

SECTION1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product code : ARGININE L HCL JP USP EP FCC

Trades code : 0286

Chemical Name: ARGININE L HCL JP USP EP FCC CAS: 1119-34-2

1.2. Relevant identified uses of the substance or mixture and uses advised against

Substance

Sectors of use:

Professional use[SU22]

Uses advised against

Do not use for purposes other than those listed.

1.3. Details of the supplier of the safety data sheet

FARMALABOR SRL

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e-mail: info@farmalabor.it

1.4. Emergency telephone number

Emergency number 112(EU)

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Germany +49(0)613119240

Spain +34915620420

Greece 2107793777

Netherlands +31(0)302748888

Croatia +38512348342

Switzerland 145;Latvia +37167042473

SECTION2. Hazards identification

2.1. Classification of the substance or mixture

CAS 1119-34-2

2.1.1 Classification according to Regulation (EC) No 1272/2008:

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Pictograms:

None.

Hazard Class and Category Code(s):

Nonhazardous.

Hazard statement Code(s):

Nonhazardous.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):
None.

Hazard statement Code(s):
Nonhazardous.

Supplemental Hazard statement Code(s):
not applicable

Precautionary statements:
None in particular.

2.3. Other hazards

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

No information on other hazards.
This document is outside the scope of Article 31 of REACH

LC50 Fish - 96h >1000mg/L

NOEC (Crustaceans) <1000mg/L

Not determined

LOW (LogKOW = -4.0041)

SECTION3. Composition/information on ingredients

3.1 Substances

No substance to signal.

3.2 Mixtures

Irrilevant.

SECTION4. First aid measures

4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water for at least 10 minutes.

Ingestion:

Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus.

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction.

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...).

Keep containers cool with water spray.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke.

Wear gloves and protective clothing.

6.1.2 For emergency responders:

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill.

Inform the competent authorities.

Discharge the remains in compliance with the regulations.

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:

Recover the product for reuse, if possible, or the removal.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved.

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

At work do not eat or drink.
See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool place, away from sources of heat and direct exposure of sunlight.

7.3. Specific end use(s)

Public domain (administration, education, entertainment, services, craftsmen):
No data available.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

DNEL
WORKERS

Dermal 947.5 mg/kg bw/day
Inhalation 668.2 mg/m³
Dermal 473.8 mg/kg bw/day
Inhalation 164.8 mg/m³
Oral 47.4 mg/kg bw/day

PNEC
2.2 mg/L (Water (fresh))
0.22 mg/L (Water - intermittent release) 22 mg/L (Water (marine))
4.437 mg/kg sediment dw (Sediment (Fresh water))
0.444 mg/kg sediment dw (Sediment (Marine)) 12 g/L {STP}

8.2. Exposure controls

Appropriate engineering controls:

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard physically away from the worker and ventilation that strategically adds and removes air in the work environment.

Public domain (administration, education, entertainment, services, craftsmen):

The usual precautionary measures for handling chemicals should be observed.

Individual protection measures:

(a) Eye/face protection
Not needed for normal use.

(b) Skin protection

(i) Hand protection

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care.

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.

Polychloroprene. nitrile rubber. butyl rubber

(ii) Other

Wear normal work clothing.

(c) Respiratory protection
Not needed for normal use.

(d) Thermal hazards
No hazard to report.

Environmental exposure controls:

Use according to good working practices to avoid pollution into the environment.

SECTION9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Physical state	crystal, powder	
Colour	white	
Odour	odorless	
Odour threshold	not determined	
Melting point/freezing point	235	
Boiling point or initial boiling point and boiling range	not determined	
Flammability	not determined	
Lower and upper explosion limit	not determined	
Flash point	not determined	
Auto-ignition temperature	not determined	
Decomposition temperature	not determined	
pH	4.7-6.2	
Kinematic viscosity	not determined	
Solubility	900g/L (25°C)	

Physical and chemical properties	Value	Determination method
Water solubility	soluble	
Partition coefficient n-octanol/water (log value)	not determined	
Vapour pressure	not determined	
Density and/or relative density	not determined	
Relative vapour density	not determined	
Particle characteristics	not determined	

9.2. Other information

9.2.1 Information with regard to physical hazard classes

Irrilevant.

9.2.2 Other safety characteristics

Irrilevant.

SECTION 10. Stability and reactivity

10.1. Reactivity

Not determined

10.2. Chemical stability

The product is considered stable and no hazardous polymerization will occur.

10.3. Possibility of hazardous reactions

Not determined

10.4. Conditions to avoid

Avoid contamination of water, food, feed or seed.
Avoid reaction with oxidizing agents

10.5. Incompatible materials

Not determined

10.6. Hazardous decomposition products

Avoid generating dust, particularly clouds of dust in a confined or unventilated space as dusts may form an explosive mixture with air, and any source of ignition, i.e. flame or spark, will cause fire or explosion. Dust clouds generated by the fine grinding of the solid are a particular hazard; accumulations of fine dust (420 micron or less) may burn rapidly and fiercely if ignited - particles exceeding this limit will generally not form flammable dust clouds; once initiated, however, larger particles up to 1400 microns diameter will contribute to the propagation of an explosion.

SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

ATE oral = ∞
ATE dermal = ∞
ATE inhal = ∞

- (a) acute toxicity: based on available data, the classification criteria are not met.
- (b) skin corrosion/irritation: based on available data, the classification criteria are not met.
- (c) serious eye damage/irritation: based on available data, the classification criteria are not met.
- (d) respiratory or skin sensitisation: based on available data, the classification criteria are not met.
- (e) germ cell mutagenicity: based on available data, the classification criteria are not met.
- (f) carcinogenicity: based on available data, the classification criteria are not met.
- (g) reproductive toxicity: based on available data, the classification criteria are not met.
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
- (i) specific target organ toxicity (STOT) repeated exposure: based on available data, the classification criteria are not met.
- (j) aspiration hazard: based on available data, the classification criteria are not met.

Oral (ratt) DL50: 12000 mg/kg

11.2. Information on other hazards

No data available.

SECTION 12. Ecological information

12.1. Toxicity

LC50 Fish - 96h >1000mg/L
NOEC (Crustaceans) <1000mg/L

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

Not determined

12.3. Bioaccumulative potential

LOW (LogKOW = -4.0041)

12.4. Mobility in soil

LOW (KOC = 20.86)

12.5. Results of PBT and vPvB assessment

Not determined

12.6. Endocrine disrupting properties

Non determinato

12.7. Other adverse effects

Not determined

SECTION13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.
Recover if possible. Operate according to local or national regulations.

SECTION14. Transport information

14.1. UN number or ID number

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None.

14.3. Transport hazard class(es)

None.

14.4. Packing group

None.

14.5. Environmental hazards

None.

14.6. Special precautions for user

No data available.

14.7. Maritime transport in bulk according to IMO instruments

It is not intended to carry bulk.

SECTION15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Legislative and regulatory provisions on health, safety and the environment specific to the substance or mixture

Legislative Decree 9/4/2008 n. 81

D. M. Work 26/02/2004 (Occupational exposure limits)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Restrictions relating to the product or substances contained in Annex XVII of Regulation (EC) 1907/2006 (REACH) and subsequent adjustments:

Product restrictions:

No restrictions.

Restrictions relating to the substances contained:

No restrictions.

Where applicable, refer to the following regulations:

Ministerial circulars 46 and 61 (aromatic amines).

Directive 2012/18 / EU (Seveso III)

Regulation 648/2004 / CE (Detergents).

D.L. 3/4/2006 n. 152 Environmental regulations

Dir. 2004/42 / CE (VOC Directive)

Provisions relating to EU Directive 2012/18 (Seveso III):

Seveso III category in accordance with Annex 1, part 1

Substances in the Candidate List (REACH Article 59)

Based on available data, no SVHC substances are present

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier.

SECTION 16. Other information

16.1. Other information

Points modified compared to previous release: 1.1. Product identifier, 1.2. Relevant identified uses of the substance or mixture and uses advised against, 2.1. Classification of the substance or mixture, 2.2. Label elements, 2.3. Other hazards, 3.1 Substances, 3.2 Mixtures, 4.1. Description of first aid measures, 4.2. Most important symptoms and effects, both acute and delayed, 4.3. Indication of any immediate medical attention and special treatment needed, 5.2. Special hazards arising from the substance or mixture, 5.3. Advice for firefighters, 6.1. Personal precautions, protective equipment and emergency procedures, 6.2. Environmental precautions, 6.3. Methods and material for containment and cleaning up, 6.4. Reference to other sections, 7.1. Precautions for safe handling, 7.2. Conditions for safe storage, including any incompatibilities, 8.1. Control parameters, 8.2. Exposure controls, 9.2. Other information, 10.1. Reactivity, 10.2. Chemical stability, 10.3. Possibility of hazardous reactions, 10.4. Conditions to avoid, 10.5. Incompatible materials, 10.6. Hazardous decomposition products, 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008, 12.1. Toxicity, 12.2. Persistence and degradability, 12.3. Bioaccumulative potential, 12.4. Mobility in soil, 12.5. Results of PBT and vPvB assessment, 12.6. Endocrine disrupting properties, 13.1. Waste treatment methods, 14.1. UN number or ID number, 14.2. UN proper shipping name, 14.3. Transport hazard class(es), 14.4. Packing group, 14.5. Environmental hazards, 14.6. Special precautions for user, 14.7. Maritime transport in bulk according to IMO instruments, 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture, 15.2. Chemical safety assessment

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008

[CLP]:

No hazard to report.. Classification procedure: Calculation method

Training for workers:

Training of workers must include contents, updates and duration based on the risk profiles assigned to the work sectors to which they belong, in accordance with the procedures set forth in Legislative Decree 81/2008.

The information contained here is based on our knowledge on the date indicated above. They refer only to the product indicated and do not constitute a guarantee of particular qualities.

The user is obliged to make sure of the suitability and completeness of this information in relation to the specific use to be made of it.

This Board cancels and replaces any previous edition.

LEGEND:

- ADR: European agreement for the transport of dangerous goods by road
- CAS NUMBER: Number of the Chemical Abstract Service
- EC50: Concentration that gives effect to 50% of the population subject to testing
- CE NUMBER: Identification number in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived level without effect
- EmS: Emergency Schedule
- GHS: Global harmonized system for the classification and labeling of chemical products
- IATA DGR: Regulation for the transport of dangerous goods of the International Air Transport Association
- IC50: Immobilization concentration of 50% of the population subjected to tests
- IMDG: International maritime code for the transport of dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number in the Annex VI of the CLP
- LC50: Lethal concentration 50%
- LD50: 50% lethal dose
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulating and toxic according to REACH
- PEC: Predictable environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predictable no-effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation for the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that must not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Average weighted exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulative according to REACH
- WGK: Class of aquatic hazard (Germany).

GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
 2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
 3. Regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)
 4. Regulation (EU) 2020/878 of the European Parliament
 5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
 6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
 7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
 8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
 9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
 10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
 11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. - 10th Edition

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11 / 11

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- Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA Agency Website
 - Database of chemical substance SDS models - Ministry of Health and National Institute of Health
-